



Manual de servicio

Acondicionador de Aire Tipo Split

Modelo : DSB-070L/DSB-071L
DSB-091L/DSB-092L
DSB-121L/DSB-122L
DSB-123L/DSA-123L
DSA-181L
DSB-181L
DSB-182L/L-R
DSB-183L-R
DSA-182L/DSA-183L-R
DSA-183L
DSB-240L-R
DSA-240L-R
DSA-240L

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1. SPECIFICATIONS

◆DSB-070L/071L

ITEM		MODEL	DSB-070L/071L	
Function			Cooling	
Class			T ₁	
Power			AC 220~ 240V/ 50Hz	
Capacity		W	2,051	
		Btu/h	7,000	
Dehumidification		l/h	0.89	
Electrical Data	Running Current	A	2.7	
	Power Input	W	650	
	Starting Current	A	18	
Compressor	Type		Rotary	
	Model		RBB070A011	
	Capacitor		25μF / 400VAC	
Fan Motor			Indoor Unit	Outdoor Unit
	Type		Cross flow fan	Propeller fan
	Capacitor		1.0μF 400VAC	1.8μF 400VAC
	Motor Model Number		YDK-8-4B	A9525BD010 / YDK-30-6B
Refrigerant (R-22)	Control		Capillary	
	Charge Q'ty	g	530	
Connection	Type		Flare	
	OD (Liquid/Gas)	in(mm)	1/4 (6.35)	3/8 (9.52)
Dimensions (W x H x D)		mm	750 x 245 x 179	654 x 549 x 256
Net Weight		kg	7.0	32.5

◆DSB-091L/092L

ITEM		MODEL	DSB-091L/092L	
Function			Cooling	
Class			T ₁	
Power			AC 220~240V/ 50Hz	
Capacity		W	2,637	
		Btu/h	9,000	
Dehumidification		l/h	1.15	
Electrical Data	Running Current	A	4.0	
	Power Input	W	900	
	Starting Current	A	21	
Compressor	Type		Rotary	
	Model		RBB095A011	
	Capacitor		25μF / 370VAC	
Fan Motor			Indoor Unit	Outdoor Unit
	Type		Cross flow fan	Propeller fan
	Capacitor		1.0μF 400VAC	1.8μF 400VAC
	Motor Model Number		YDK-8-4B	A9530BD010 / YDK-30-6B
Refrigerant (R-22)	Control		Capillary	
	Charge Q'ty	g	630	
Connection	Type		Flare	
	OD (Liquid/Gas)	in(mm)	1/4 (6.35)	3/8 (9.52)
Dimensions (W x H x D)		mm	750 x 245 x 179	654 x 549 x 256
Net Weight		kg	7.0	32.5

◆DSB-121L/122L

ITEM		MODEL	DSB-121L/122L	
Function			Cooling	
Class			T ₁	
Power			AC 220~240V/ 50Hz	
Capacity		W	3,517	
		Btu/h	12,000	
Dehumidification		l/h	1.53	
Electrical Data	Running Current	A	5.7	
	Power Input	W	1,250	
	Starting Current	A	34	
Compressor	Type		Rotary	
	Model		RCB 120A001	
	Capacitor		25μF/ 370VAC	
Fan Motor	Division		Indoor Unit	Outdoor Unit
	Type		Cross flow fan	Propeller fan
	Capacitor		1.0μF 400VAC	3.5μF 400VAC
	Motor Model Number		YDK-8-4B/A	YDK-40-4B
Refrigerant (R-22)	Control		Capillary	
	Charge Q'ty	g	1,310	
Connection	Type		Flare	
	OD (Liquid/Gas)	in(mm)	1/4 (6.35)	1/2 (12.7)
Dimensions (W x H x D)		mm	925 x 285 x 194	654 x 549 x 256
Net Weight		kg	9.7	34

◆DSB-123L/DSA-123L

MODEL			DSB-123L		DSA-123L
ITEM					
Function			Cooling		
Class			T ₁		
Power			AC 220~240V/ 50Hz		AC 208~230V/60Hz
Capacity	W		3,517		
	Btu/h		12,000		
Dehumidification		l/h	1.35		
Electrical Data	Running Current	A	5.7		
	Power Input	W	1,300		1,200
	Starting Current	A	34		29
Compressor	Type		Rotary		
	Model		RCB 120A001		QK173KAJ
	Capacitor		25μF/ 370VAC		25μF/ 400VAC
Fan Motor	Division		Indoor Unit	Outdoor Unit	Outdoor Unit
	Type		Cross flow fan	Propeller fan	Propeller fan
	Capacitor		1.5μF 400VAC	3.5μF 400VAC	2.0μF 400VAC
	Motor Model Number		RP-13B	YDK-40-4B	YDK-35-6A
Refrigerant (R-22)	Control		Capillary		
	Charge Q'ty	g	1,250		860
Connection	Type		Flare		
	OD (Liquid/Gas)	in(mm)	1/4 (6.35)	3/8 (9.52)	3/8 (9.52)
Dimensions (W x H x D)		mm	815 x 285 x 195	654 x 549 x 256	654 x 549 x 256
Net Weight		kg	9.2	34	34

◆DSA-181L/DSB-181L

ITEM \ MODEL			DSA-181L	DSB-181L
Function			Cooling	
Class			T ₁	
Power Supply			AC 220V, 60Hz	AC 220~240V, 50Hz
Capacity		W	5,129	5,100
		Btu/h	18,000	17,500
Dehumidification			2.3l/h	2.3l/h
Electrical Data	Running Current		8.0A	9.8A
	Power Input		1,750W	1,950W
	Starting Current		42A	46A
Compressor	Type		Rotary	RECIPRO
	Model		RCA180U001	CRDQ-0200-PFJ
	Capacitor		35μF/370 VAC	30μF/400 VAC
Fan	Type	Indoor	Cross Flow Fan	
		Outdoor	Propeller Fan	
	Capacitor	Indoor	1.2μF/400 VAC	
		Outdoor	3μF/400 VAC	
	Motor Model	Indoor	IC-9425DWKH6A	IC-9425DWKC5A
		Outdoor	YDK-50-6A	AM12DPD04
Refrigerant (R-22)	Control		Capillary	
	Charge Q'ty		1,430g	1,150g
Type Connection			Flare	
	OD (Liquid/Suction)	Indoor	1/4”(6.35mm)	
		Outdoor	1/2”(12.7mm)	
Dimensions	Indoor		1,035 x 322 x 205	
	Outdoor		800 x 615 x 320	
Net Weight	Indoor		11.7Kg	11.7Kg
	Outdoor		50Kg	55.8Kg

◆DSB-182L/182L-R/183L-R

MODEL			DSB-182L		DSB-182L-R		DSB-183L-R	
ITEM								
Function			Cooling					
Class			T1					
Power			AC 220~240V/ 50Hz					
Capacity		W	5,129		5,275		5,275	
		Btu/h	17,500		18,000		18,000	
Dehumidification		l/h	2.3		2.3		2.3	
Electrical Data	Running Current	A	9.6		9.2		9.5	
	Power Input	W	2,134		2,000		2,000	
	Starting Current	A	49		54		54	
Compressor	Type		Rotary		Recipro		Recipro	
	Model		SHW33TC4-U		AWG5524EXC		AWG5524EXC	
	Capacitor		50μF / 370VAC		35μF / 370VAC		35μF / 370VAC	
Fan Motor			Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit
	Type		Cross flow fan	Propeller fan	Cross flow fan	Propeller fan	Cross flow fan	Propeller fan
	Capacitor		1.2μF 450VAC	3μF 400V	1.2μF 450VAC	3.0μF 400V	1.2μF 450VAC	3.0μF 400V
	Motor Model Number		IC-9625DWKC5C	YDK-50-6B	IC-9625DWKC5C	YDK-50-6B	IC-9625DWKC5C	YDK-50-6B
Refrigerant (R-22)	Control		Capillary		Capillary		Capillary	
	Charge Q'ty	g	1,600		1,350		1,400	
Connection	Type		Flare		Flare		Flare	
	OD (Liquid/Gas)	in(mm)	1/4 (6.35)	1/2 (12.7)	1/4 (6.35)	1/2 (12.7)	1/4 (6.35)	1/2 (12.7)
Dimensions (W x H x D)		mm	1035 x 322 x 205	800 x 615 x 320	1035 x 322 x 205	800 x 615 x 320	1080 x 298 x 320	800 x 615 x 320
Net Weight		kg	11.7	52.5	11.7	62	14.7	62

◆DSA-182L/183L-R

MODEL			DSA-182L		DSA-183L-R	
ITEM						
Remark					JIS C9812	SAA 385, 386
Function			Cooling			
Class			T1			
Power			AC 220V/ 60Hz			
Capacity		W	5,129		5,275	4,500
		Btu/h	17,500		18,000	15,354
Dehumidification		l/h	2.3		2.3	
Electrical Data	Running Current	A	8.3		9.4	10.4
	Power Input	W	1,785		2,000	2,200
Compressor	Starting Current	A	44		52	52
	Type		Rotary		Recipro	
	Model		ECB185211A		AWG5519EXN	
Fan Motor	Capacitor		30 μ F / 370VAC		25 μ F / 400VAC	
			Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit
	Type		Cross flow fan	Propeller fan	Cross flow fan	Propeller fan
	Capacitor		1.2 μ F 450VAC	3 μ F 400V	2 μ F / 400VAC	2 μ F / 400VAC
Refrigerant (R-22)	Motor Model Number		IC-9625DWKC5C	YDK-50-6B	IC-9430DWKF7A	IC-1625DWCF6B
	Control		Capillary		Capillary	
Connection	Charge Q'ty	g	1,450		1,400	
	Type		Flare		Flare	
OD (Liquid/Gas)		in(mm)	1/4 (6.35)	1/2 (12.7)	1/4 (6.35)	1/2 (12.7)
Dimensions (W x H x D)		mm	1035 x 322 x 205	800 x 615 x 320	1080 x 298 x 200	800 x 615 x 320
Net Weight		kg	11.7	50	14.7	62

DSA-183L

MODEL			DSA-183L	
ITEM				
Remark			JIS C9812	SAA 385, 386
Function			Cooling	
Class			T1	
Power			AC 220V / 60Hz	
Capacity		W	5,270	4,450
		Btu/h	18,000	15,200
Dehumidification		l/h	2.5	
Electrical Data	Running Current	A	10.4	11.8
	Power Input	W	2,000	2,300
	Starting Current	A	60	60
Compressor	Type		Rotary	
	Model		RCA280T001	
	Capacitor		30μF / 440VAC	
Fan Motor			Indoor Unit	Outdoor Unit
	Type		Cross flow fan	Propeller fan
	Capacitor		2μF / 400VAC	4μF / 400VAC
	Motor Model Number		IC-9430DWKF7A	IC-1625DWCF6B
Refrigerant (R-22)	Control		Capillary	
	Charge Q'ty	g	1,350	
Connection	Type		Flare	
	OD (Liquid/Gas)	in(mm)	1/4 (6.35)	1/2 (12.7)
Dimensions (W x H x D)		mm	1080 x 298 x 200	800 x 615 x 320
Net Weight		kg	14.7	60.5

DSB-240L-R

ITEM \ MODEL		DSB-240L-R	
Function		Cooling	
Class		T1	
Power		AC 220~240V/ 50Hz	
Capacity		W	6,594
		Btu/h	22,500
Dehumidification		l/h	3.2
Electrical Data	Running Current	A	13.4
	Power Input	W	2,400
	Starting Current	A	83
Compressor	Type		Recipro
	Model		AWG5530EXC
	Capacitor		45μF/ 400VAC
Fan Motor	Division		Indoor Unit Outdoor Unit
	Type		Cross flow fan Propeller fan
	Capacitor		2μF 400VAC 5μF 400VAC
	Motor Model Number		IC-9430DWKF7A OSME-806DERC
Refrigerant (R-22)	Control		Capillary
	Charge Q'ty	g	2,050
Connection	Type		Flare
	OD (Liquid/GAS)	in(mm)	3/8 (9.52) 5/8 (15.9)
Dimensions (W x H x D)		mm	1080 x 298 x 200 872 x 675 x 325
Net Weight		kg	14.7 64

DSA-240L-R

MODEL			DSA-240L-R	
ITEM				
Remark			AHAM	
Function			Cooling	
Class			T1	
Power			AC 220V / 60Hz	
Capacity	W		7,034	5,129
	Btu/h		24,000	17,500
Dehumidification		l/h	2.86	
Electrical Data	Running Current	A	11.7	13
	Power Input	W	2,500	2,850
	Starting Current	A	60	60
Compressor	Type		Recipro	
	Model		AWG5524EXN	
	Capacitor		35µF / 400VAC	
Fan Motor			Indoor Unit	Outdoor Unit
	Type		Cross flow fan	Propeller fan
	Capacitor		2µF / 400VAC	5µF / 400VAC
	Motor Model Number		IC-9430DWKF7A	A2929GS010
Refrigerant (R-22)	Control		Capillary	
	Charge Q'ty	g	2100	
Connection	Type		Flare	
	OD (Liquid/Gas)	in(mm)	5/8" (15.88)	
Dimensions (W x H x D)		mm	1080 x 298 x 200	875 x 675 x 325
Net Weight		kg	14.7	64

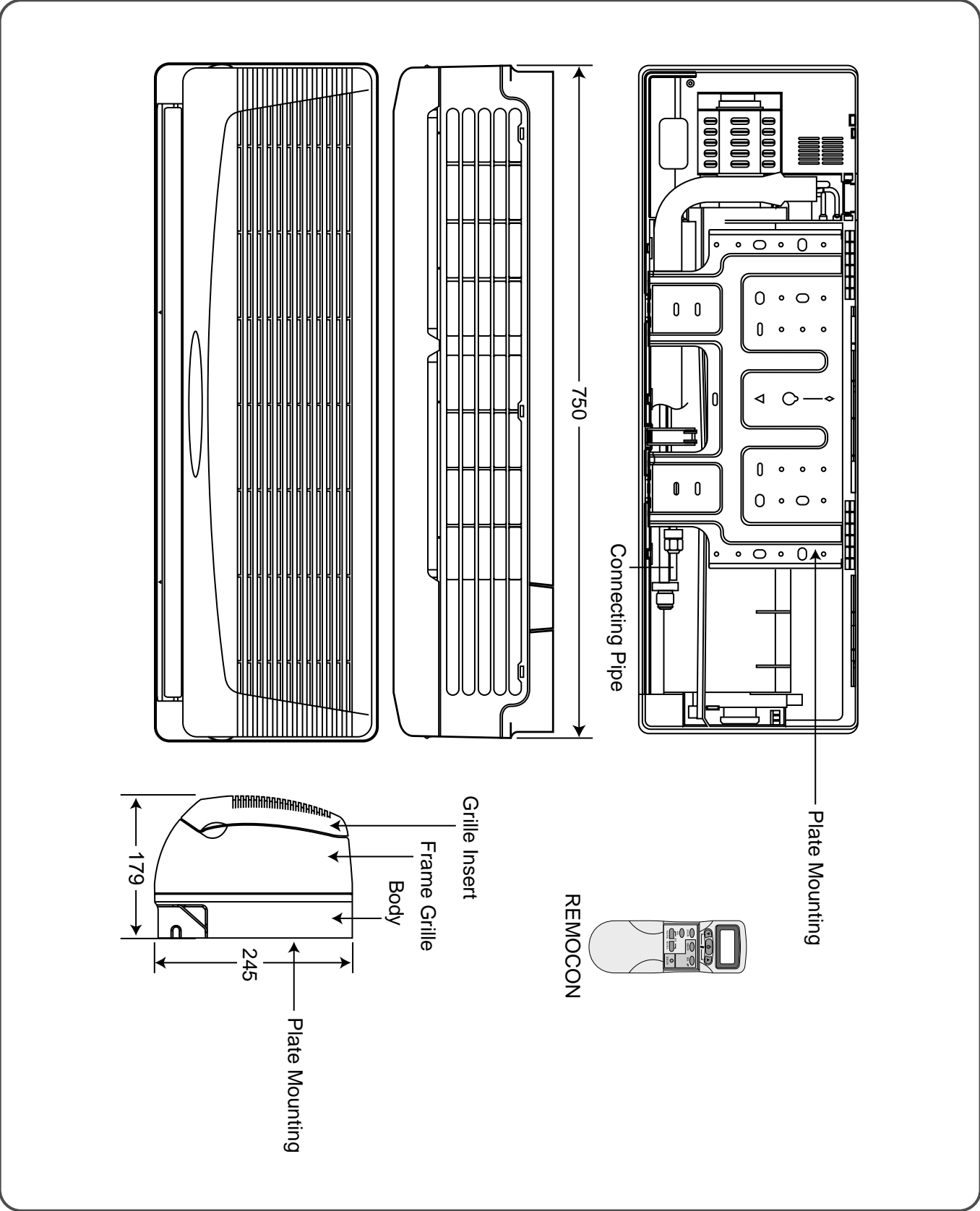
DSA-240L

MODEL			DSA-240L	
ITEM				
Remark			JIS C9812	SAA 385, 386
Function			Cooling	
Class			T1	
Power			AC 220V / 60Hz	
Capacity		W	7,030	5,860
		Btu/h	24,000	20,000
Dehumidification		l/h	2.86	
Electrical Data	Running Current	A	10.8	13.5
	Power Input	W	2,320	2,750
	Starting Current	A	60	60
Compressor	Type		Rotary	
	Model		55A240IT1JM	
	Capacitor		45μF / 450VAC	
Fan Motor			Indoor Unit	Outdoor Unit
	Type		Cross flow fan	Propeller fan
	Capacitor		2μF / 400VAC	5μF / 400VAC
	Motor Model Number		IC-9430DWKF7A	A2929GS01B
Refrigerant (R-22)	Control		Capillary	
	Charge Q'ty	g	2,100	
Connection	Type		Flare	
	OD (Liquid/Gas)	in(mm)	3/8 (9.52)	5/8 (15.88)
Dimensions (W x H x D)		mm	1080 x 298 x 200	875 x 675 x 325
Net Weight		kg	14.7	64

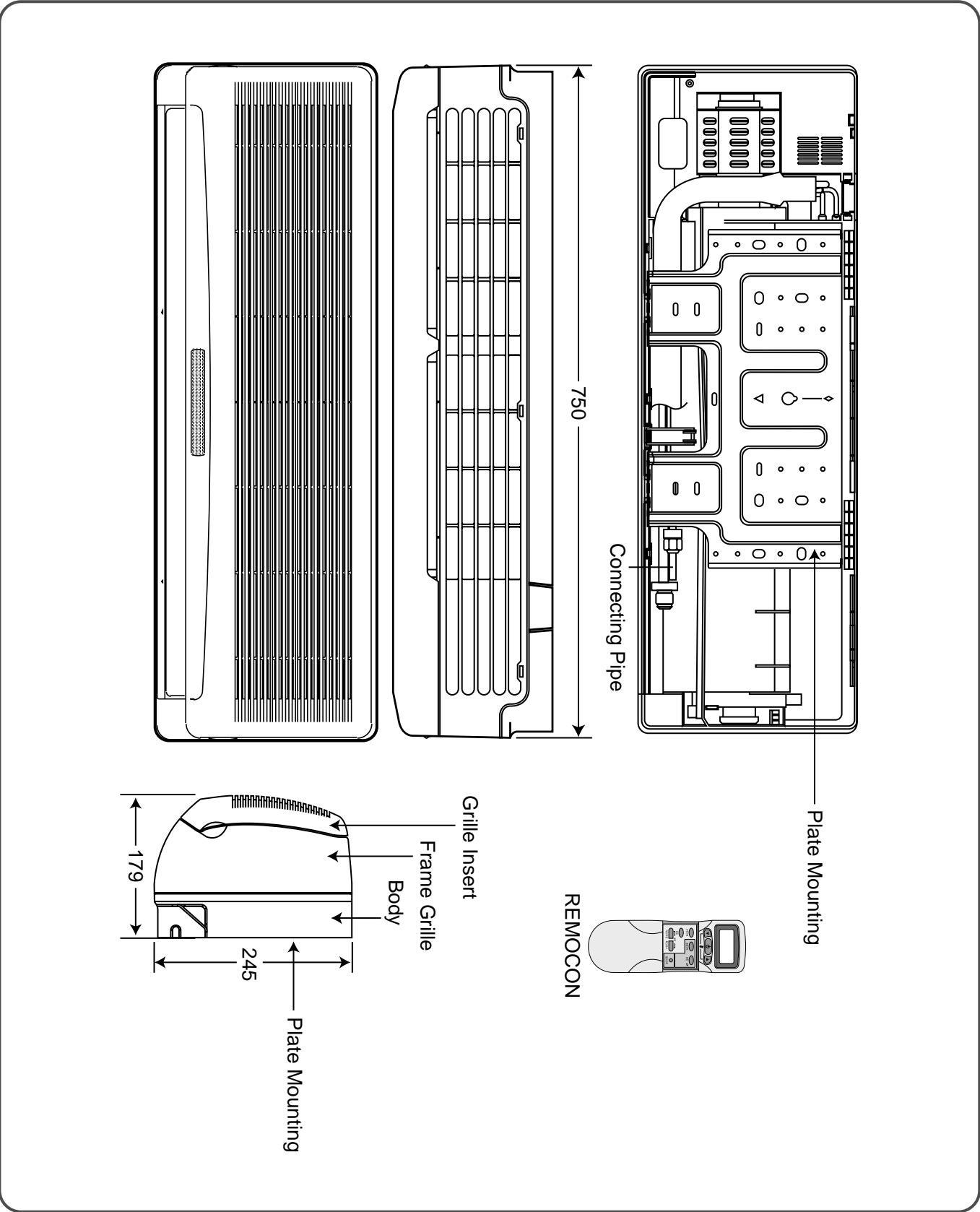
2. OUTLINE AND DIMENSIONS

1 INDOOR UNIT

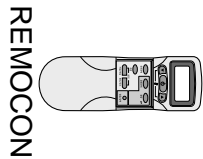
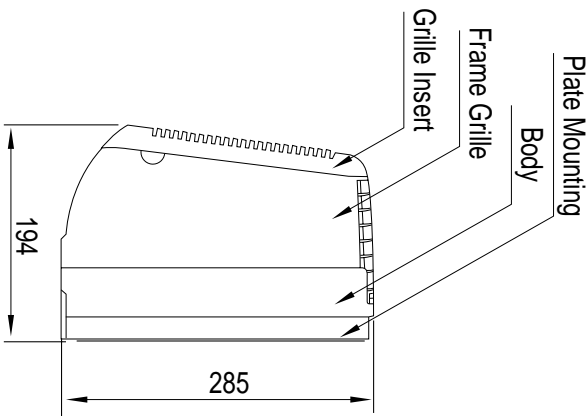
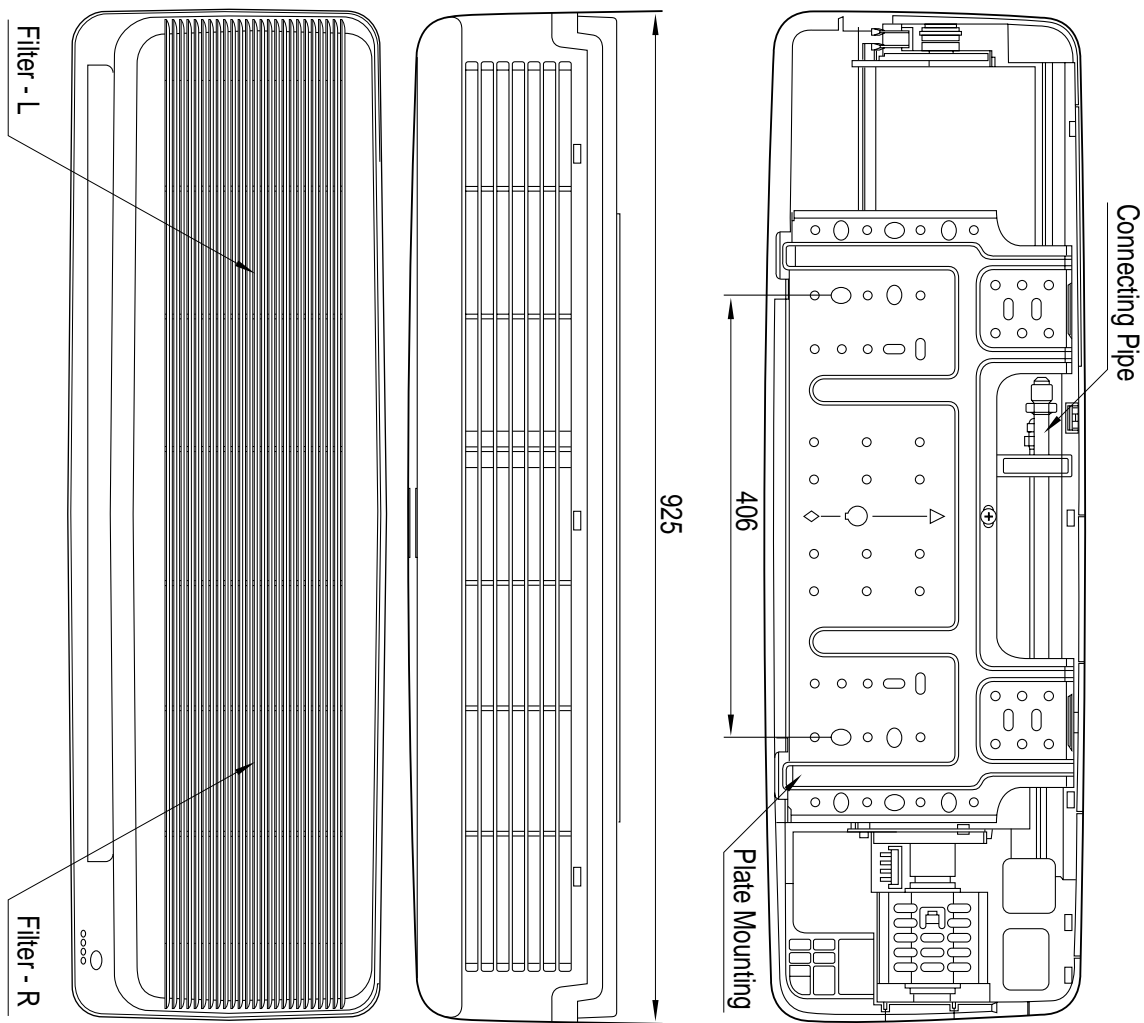
◆DSB-070L/DSB-091L



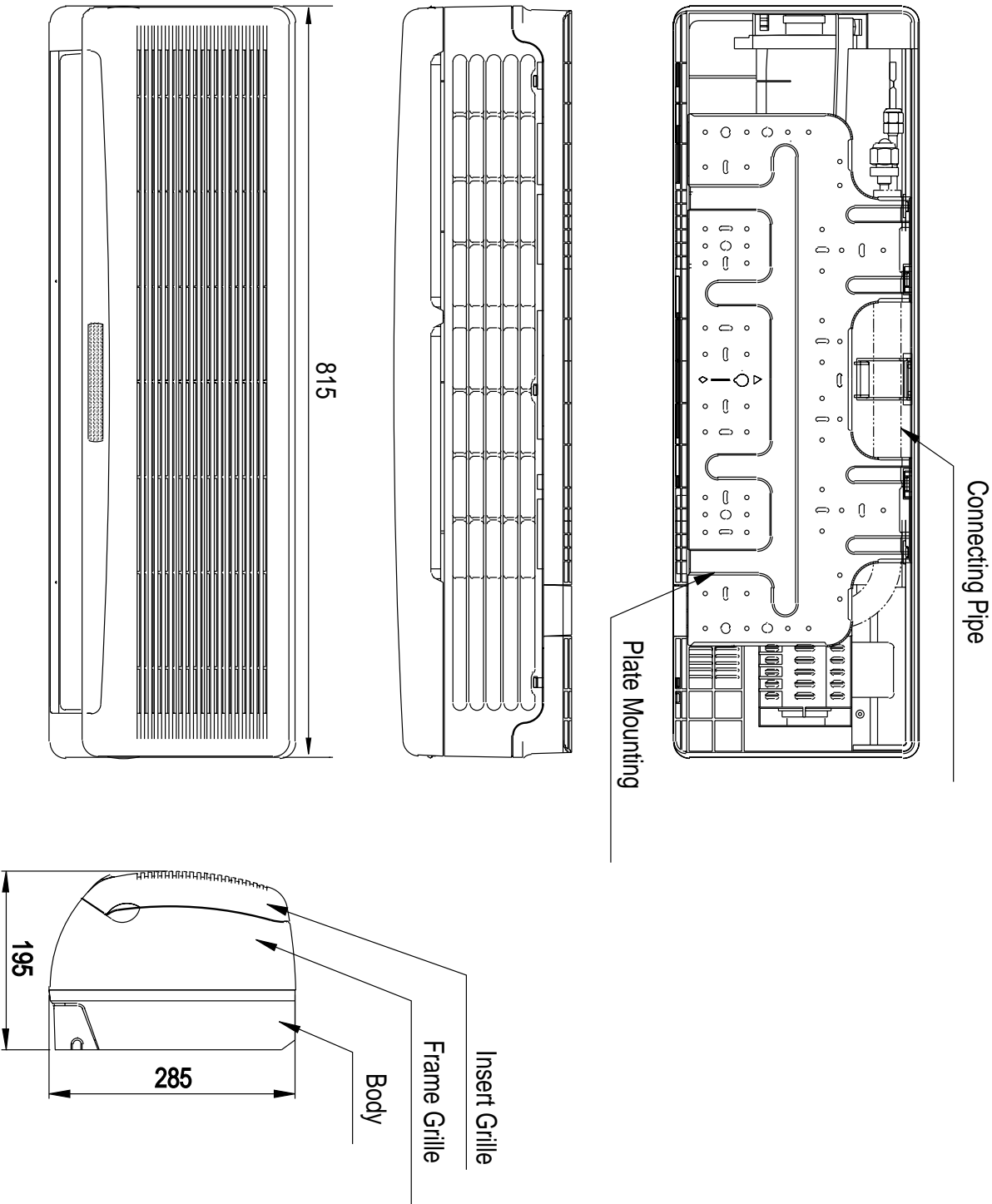
◆DSB-071L/DSB-092L



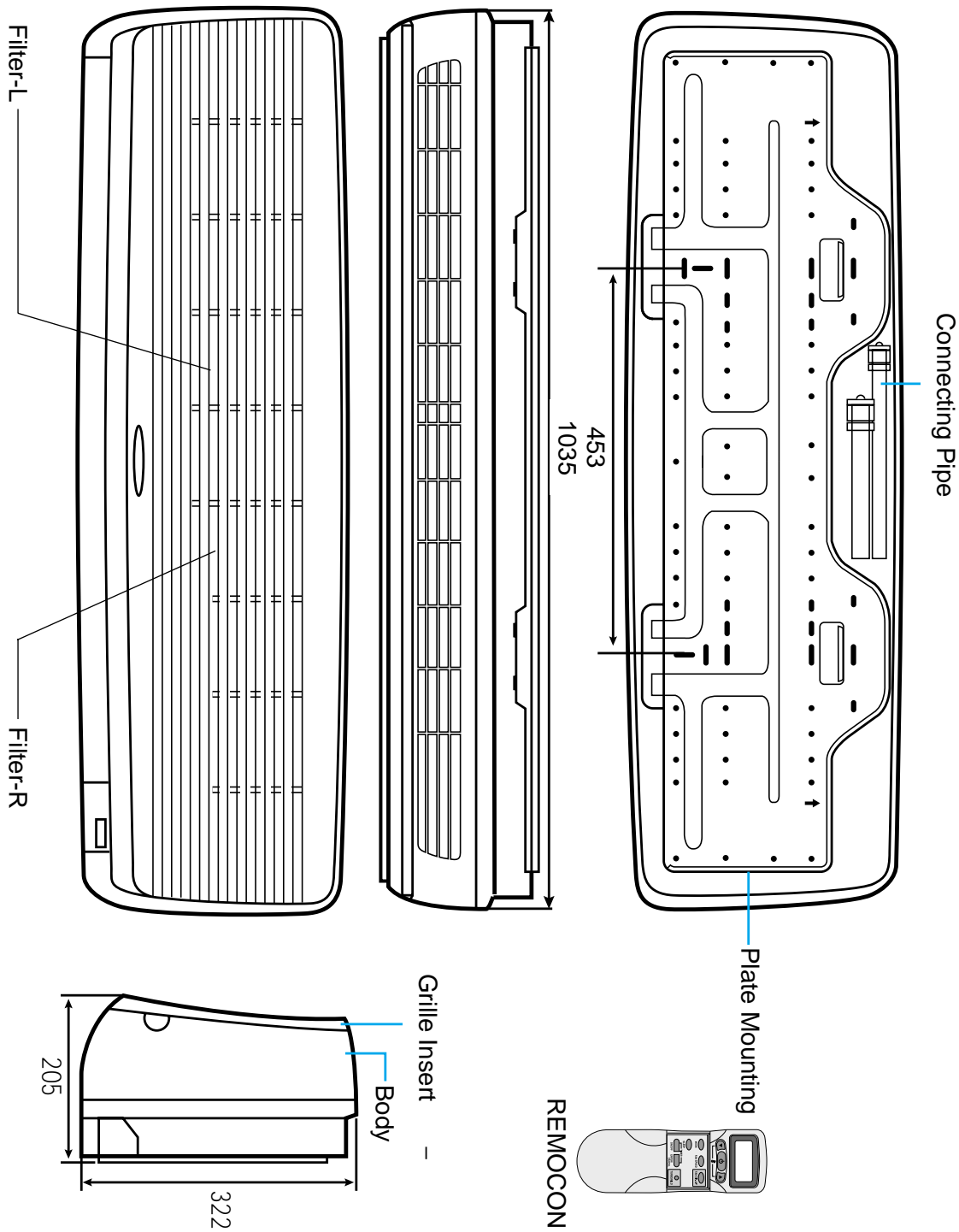
◆DSB-121L/122L



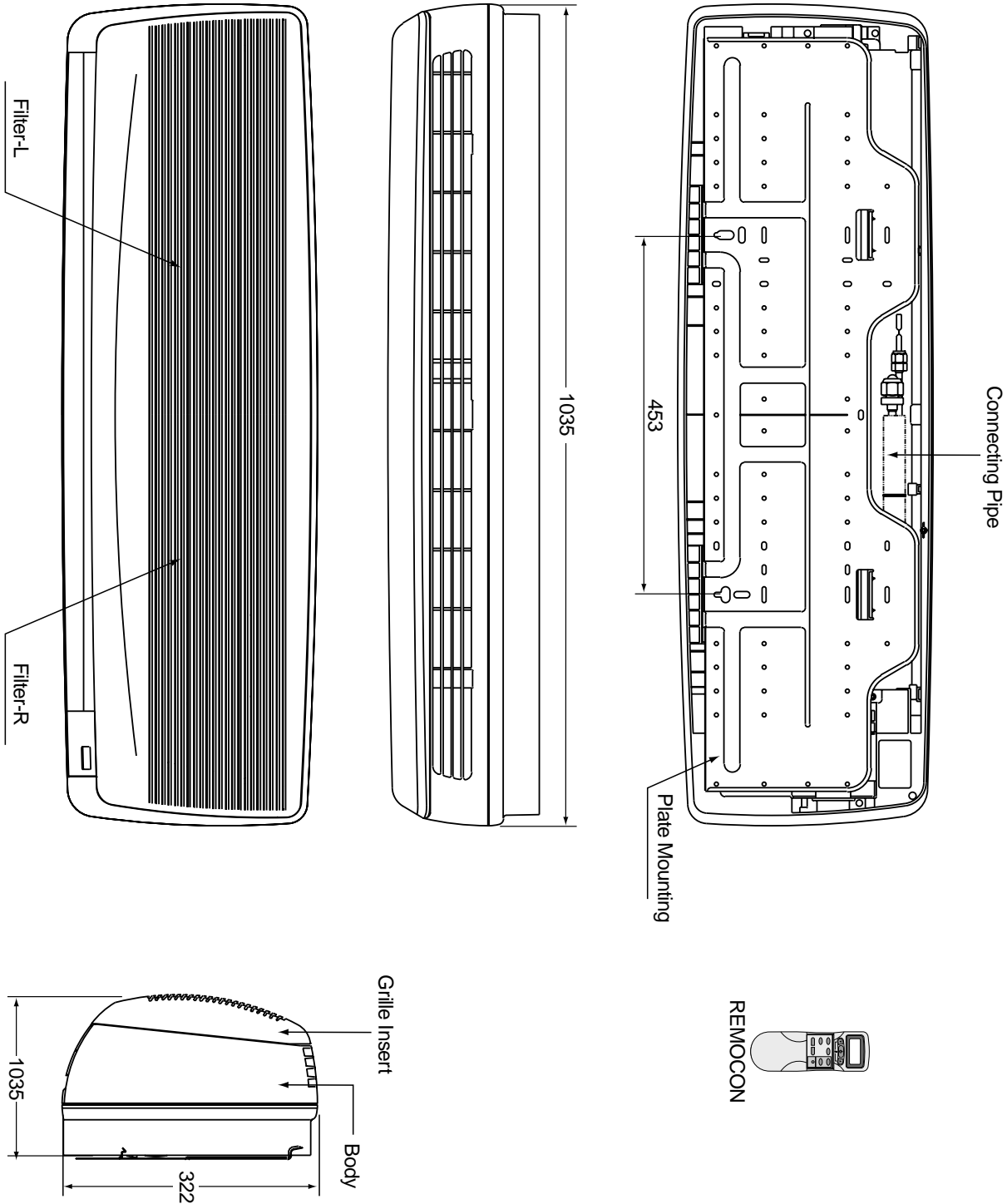
◆DSB-123L/DSA-123L



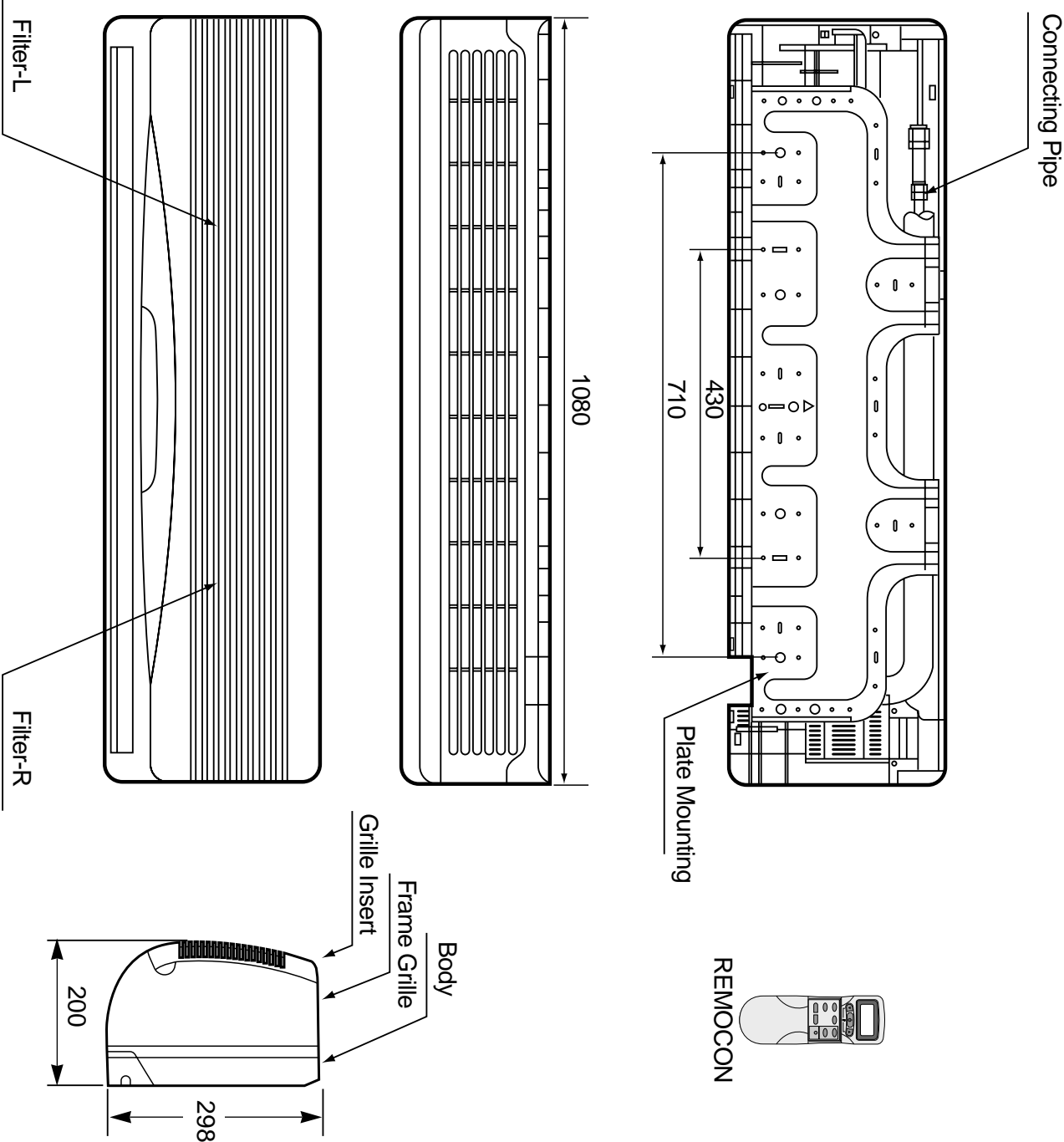
◆ DSA-181L/DSB-181L



DSB-182L/182L-R, DSA-182L

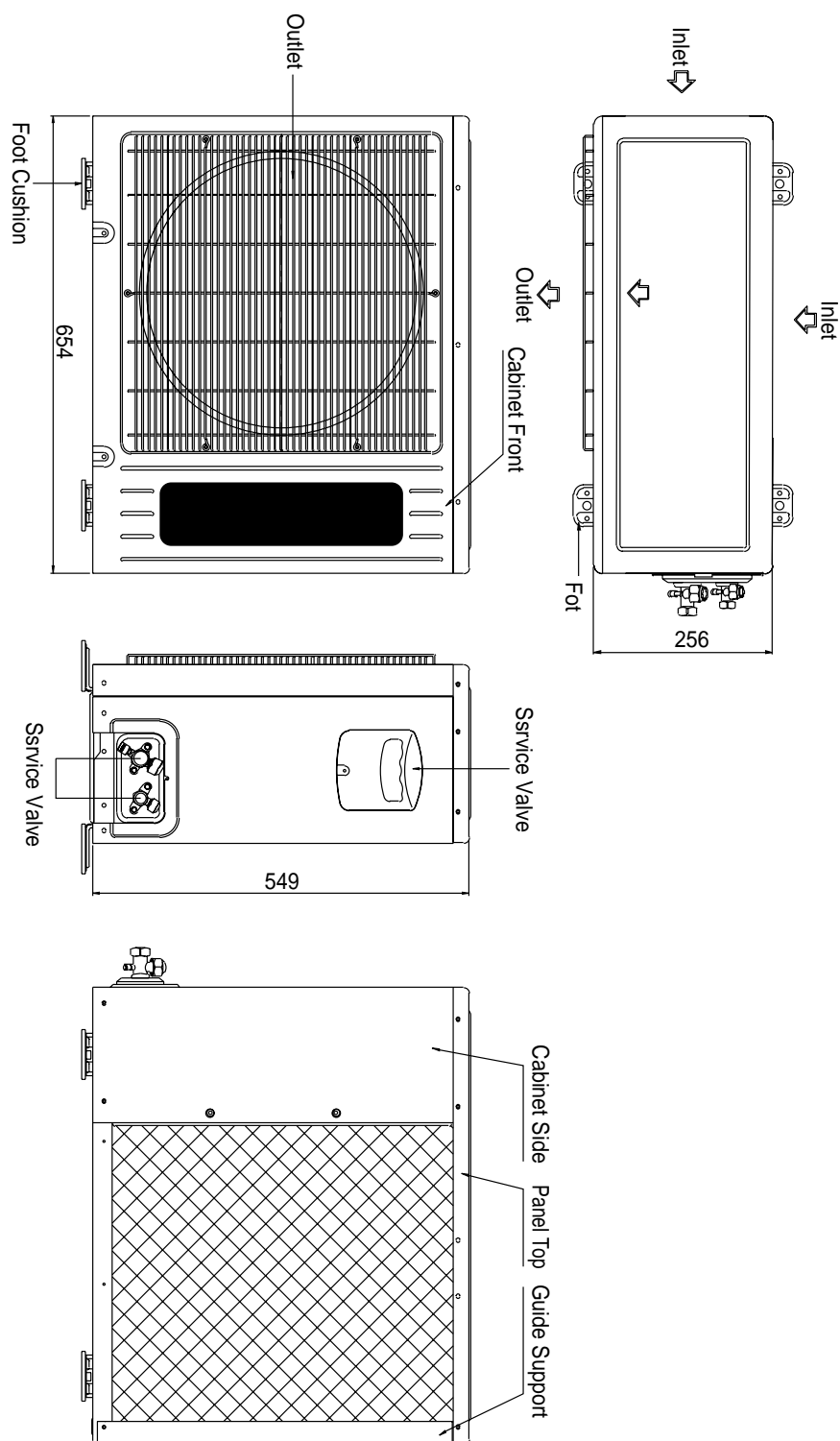


◆ DSA-183L-R/DSA-240L-R, DSB-183L-R/240L-R, DSA-183L/240L

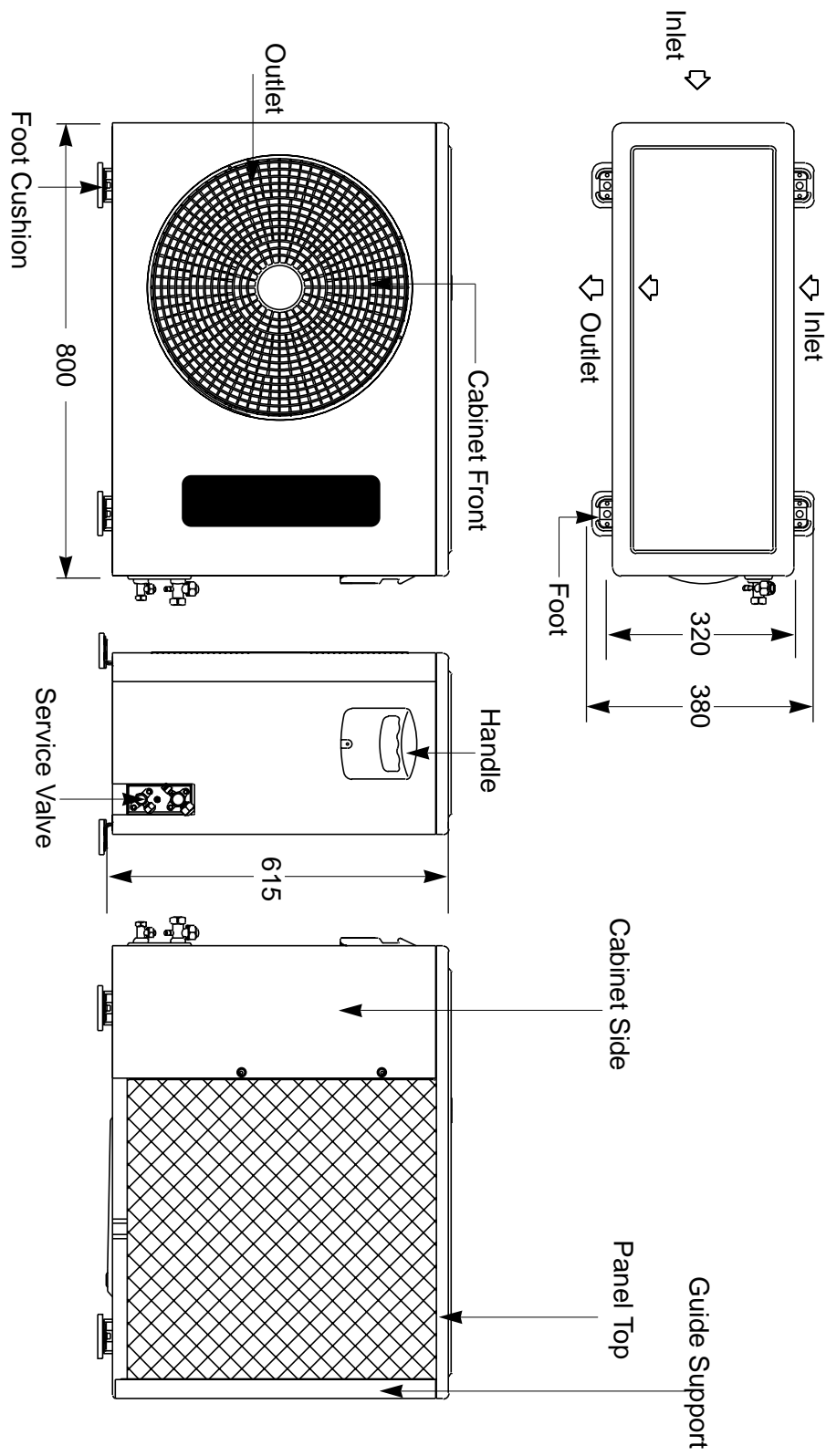


2 OUTDOOR UNIT

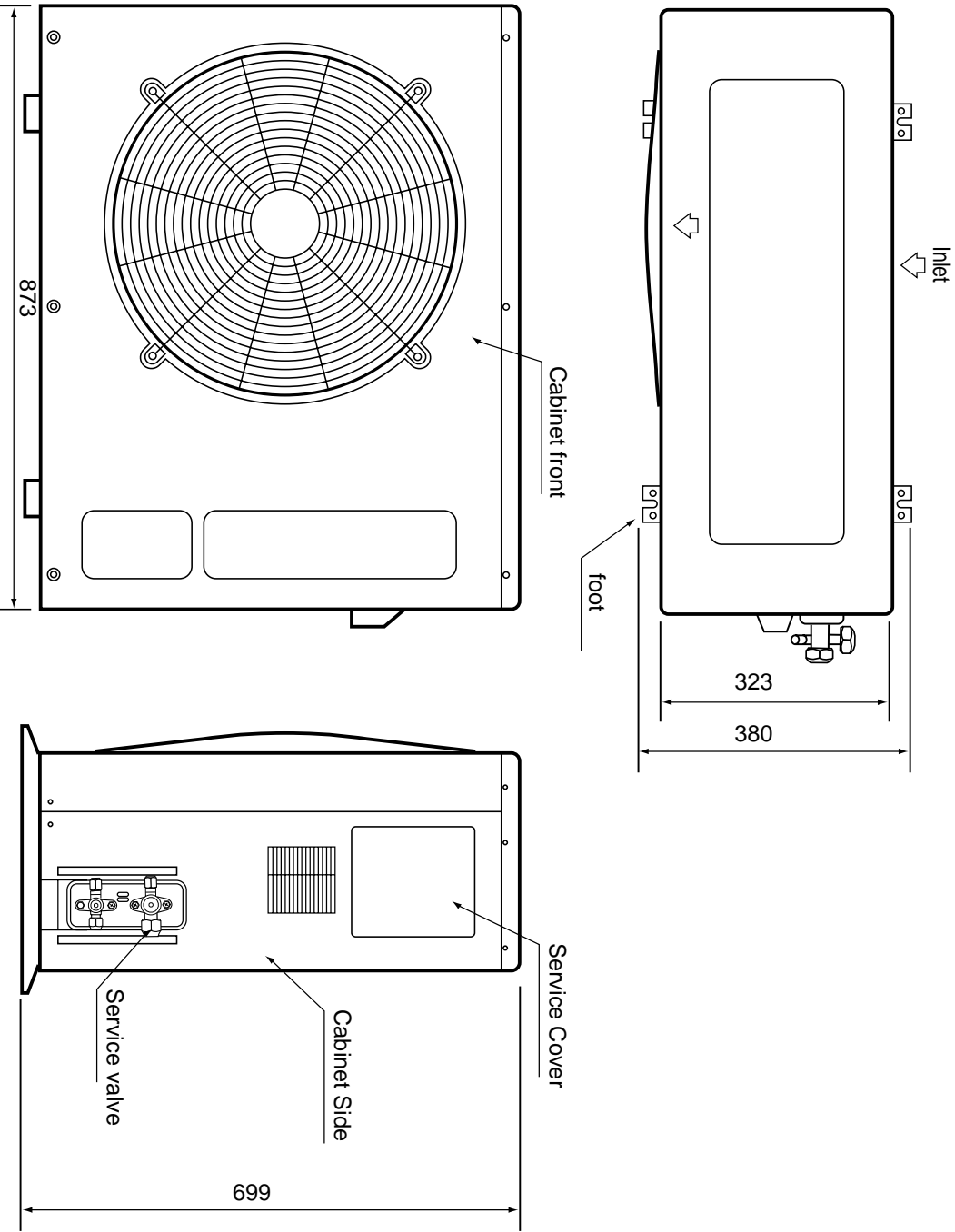
◆DSB-070L/071L/DSB-091L/092L/DSB-121L/122L/123L



DSB-181L/182L/182L-R/183L-R, DSA-181L/182L/183L/183L-R



◆DSB-240L-R/DSA-240L-R/DSA-240L

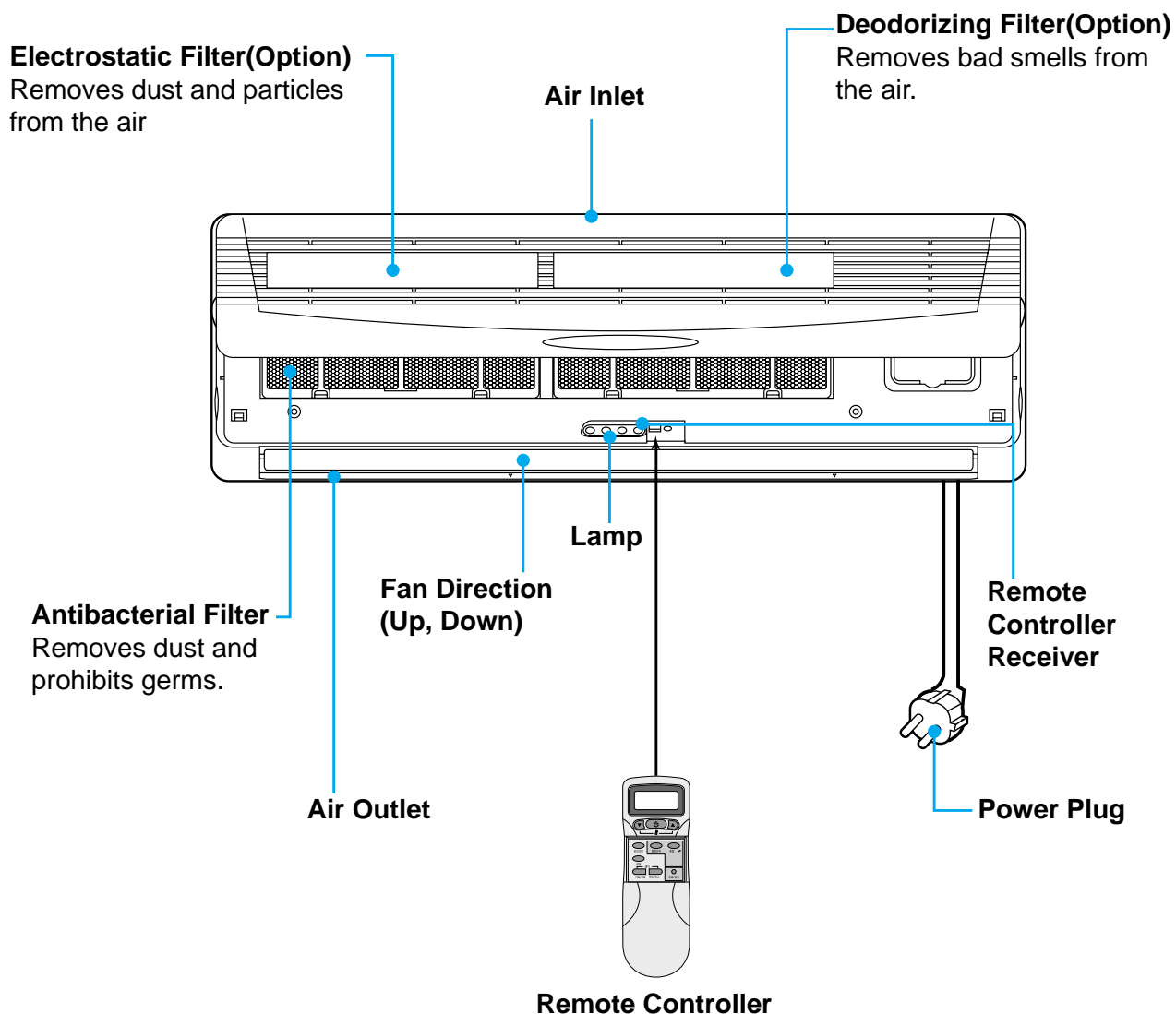


3. OPERATION

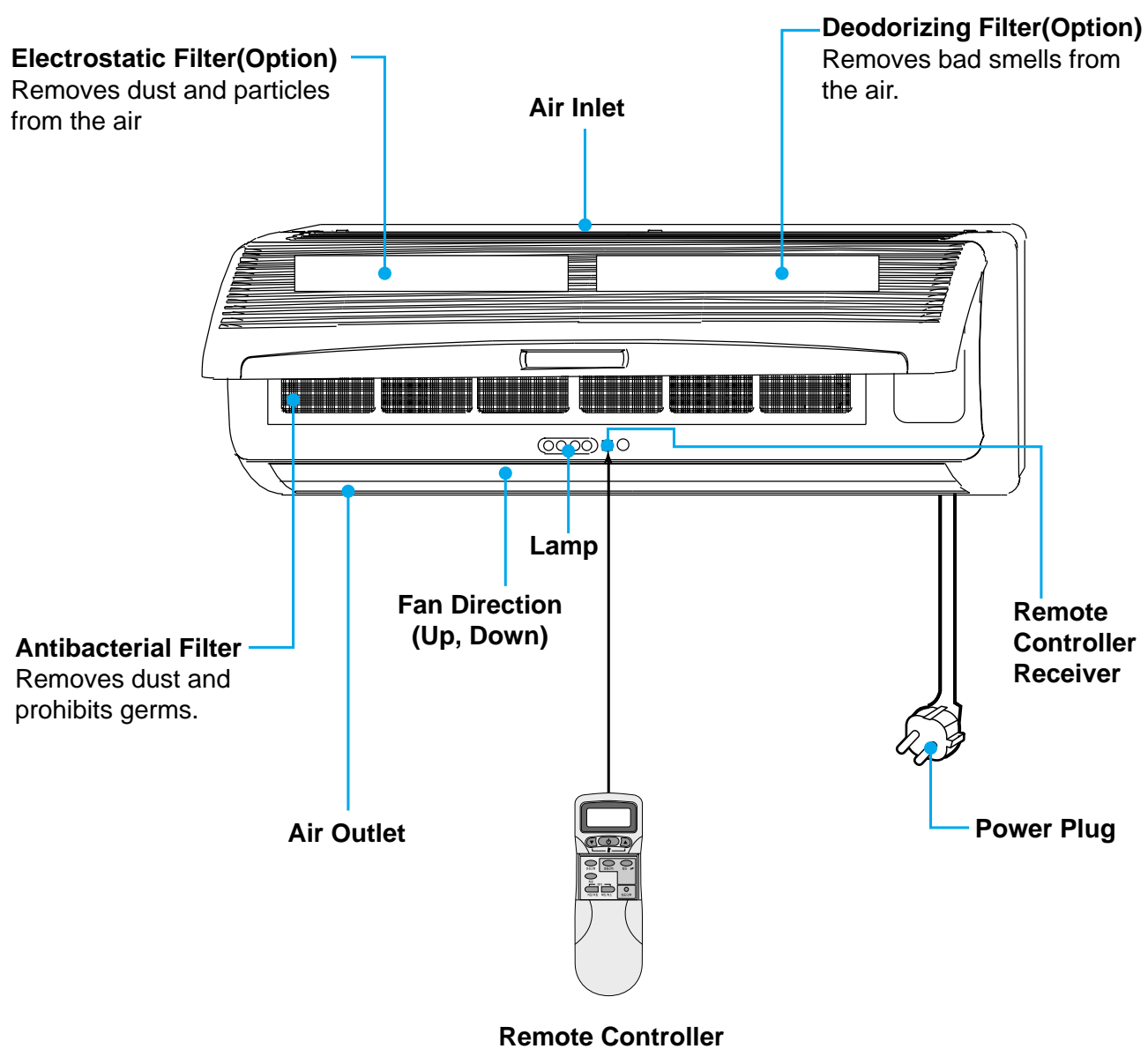
1 NAME AND FUNCTION OF PARTS

Indoor Unit

◆DSB-070L/DSB-091L



◆DSB-071L/DSB-092L



◆DSB-121L/122L

Electrostatic Filter
Removes dust and particles from the air

Air Inlet

Deodorizing Filter
Removes bad smells from the air.

Antibacterial Filter
Removes dust and prohibits germs.

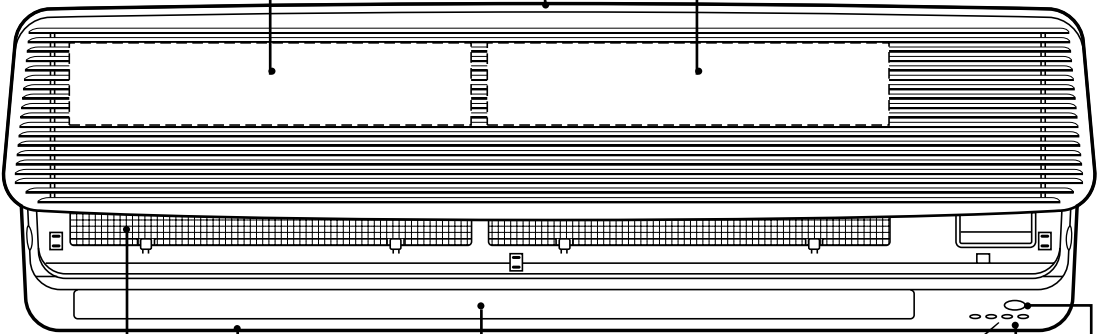
Air Outlet

Fan Direction
(Up, Down)

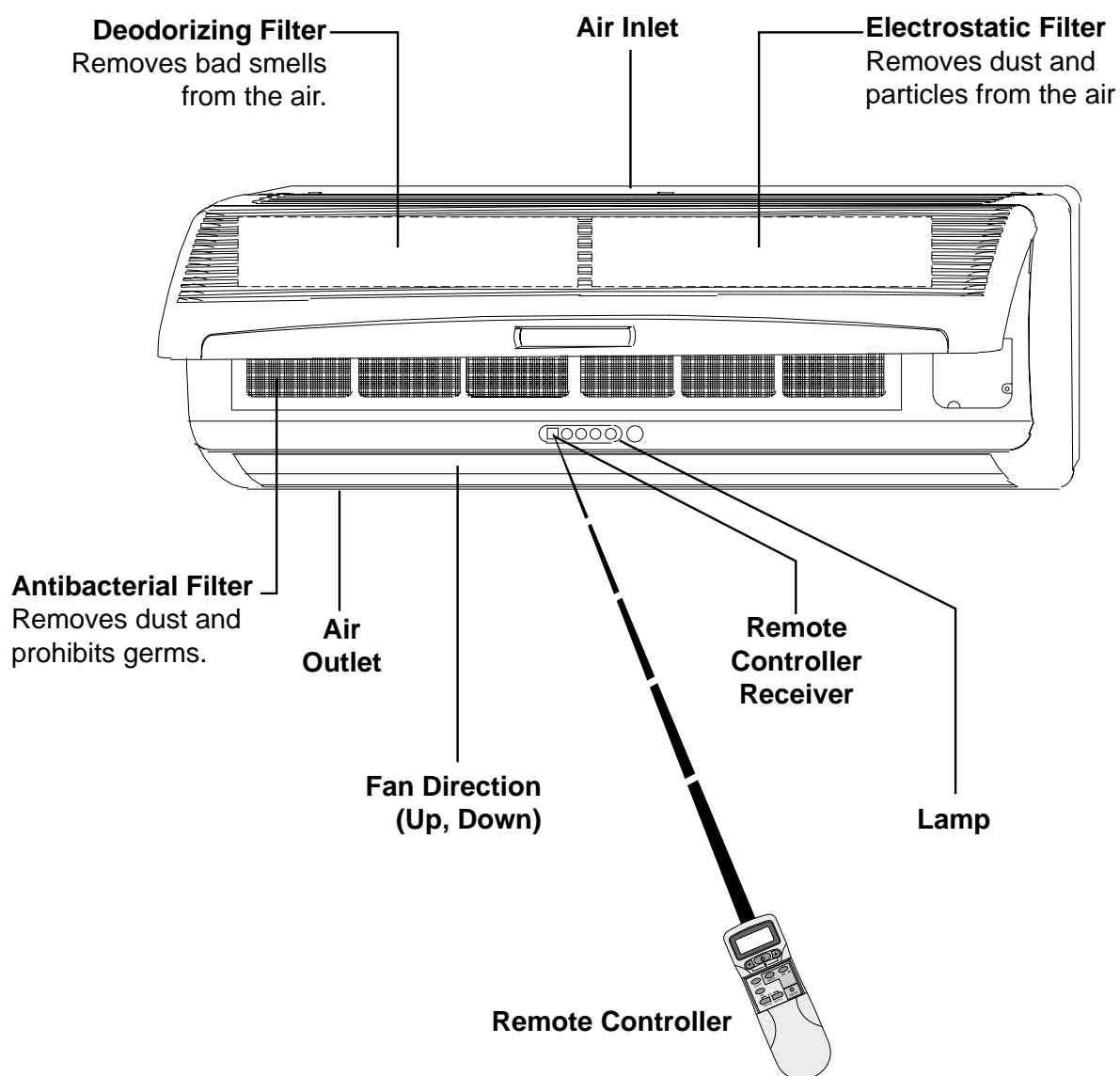
Remote Controller Receiver

Lamp

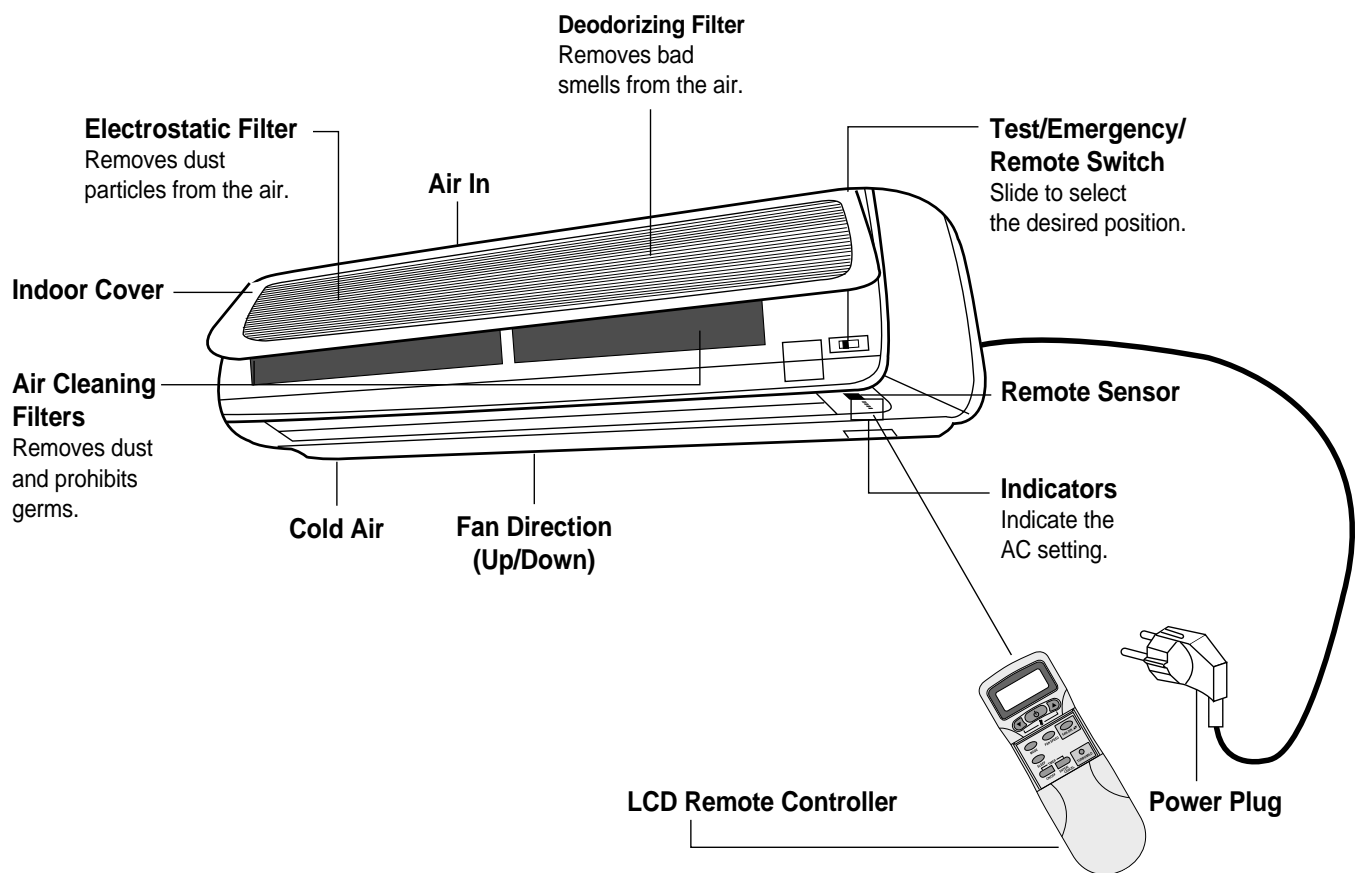
Remote Controller



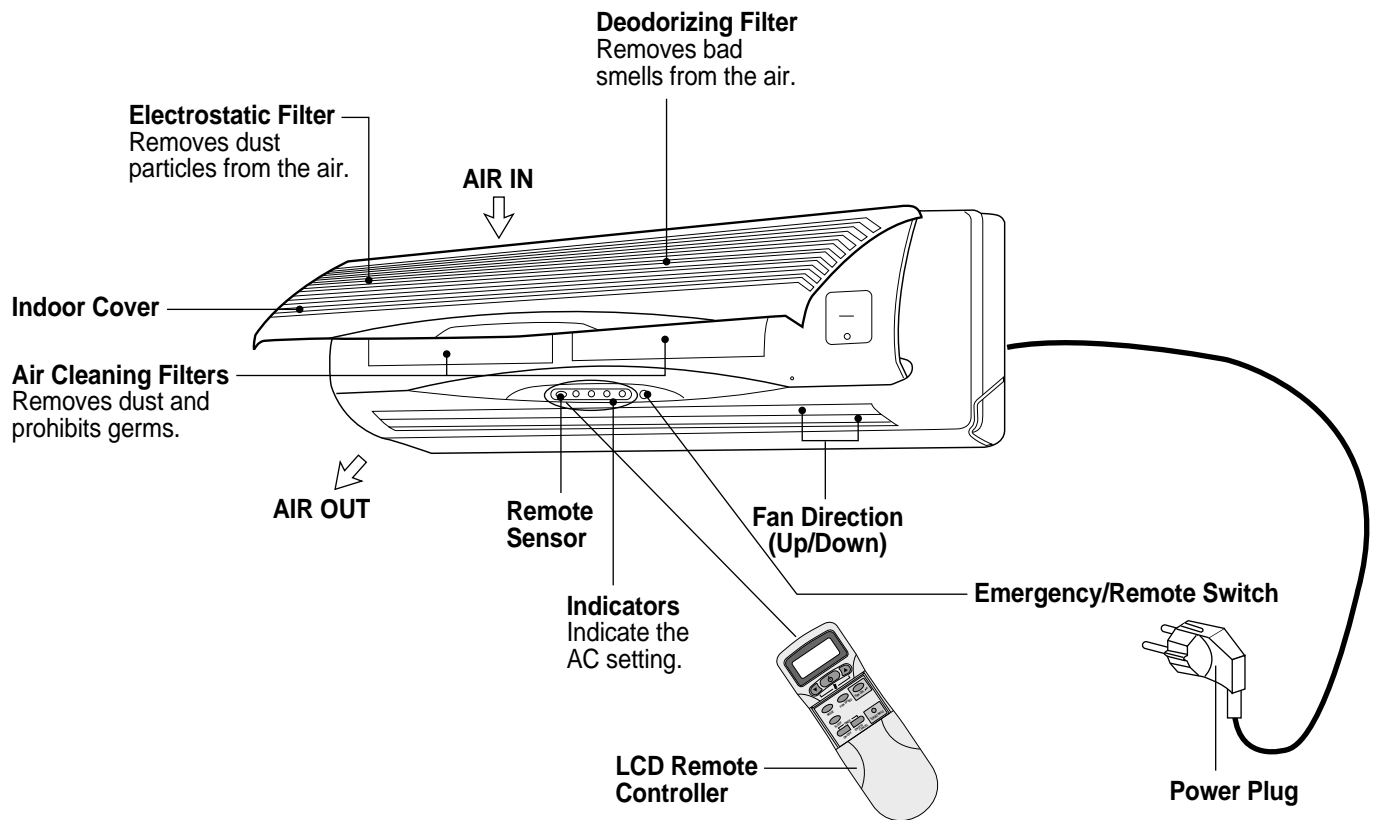
◆DSB-123L/DSA-123L

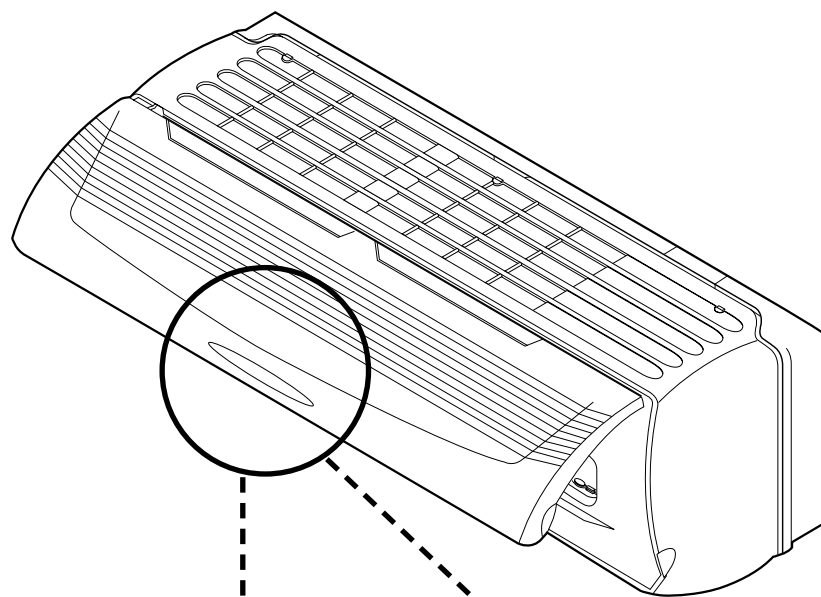


◆ DSB-181L/182L/182L-R, DSA-181L/182L



◆ DSA-183L-R/DSA-240L-R, DSB-183L-R/240L-R, DSA-183L/240L





Indoor Unit Display

■ Remote Control Signal Receiver

This place is the part to receive the signal if it receives the signal, you can hear the signal "beep. beep. beep."



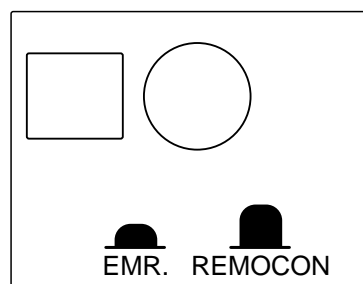
ON (Red)
Lights when the operation is going on.

Air clean (Green)

Timer (Yellow)
Lights during the time reservation mode.

Quick (Red)

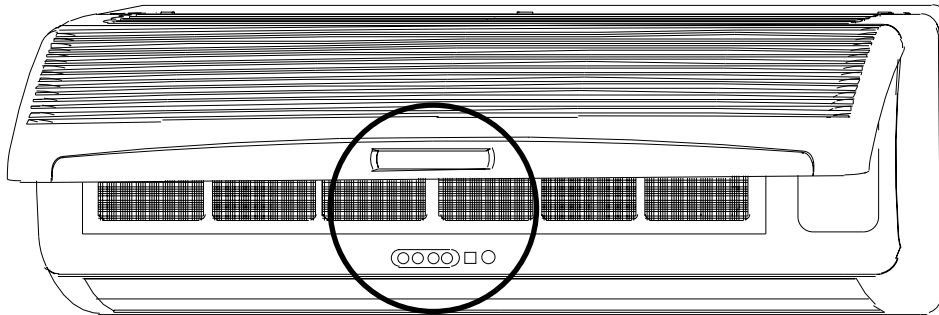
Switch Panel



■ There is a switch panel at inside of Front Panel. At the time of operating, open the Front Panel.

Emergency switch can be used when the remote controller is lost or Testing.

Remote switch is usually used by remote controller.



Indoor Unit Display

■ Remote Control Signal Receiver

This place is the part to receive the signal if it receives the signal, you can hear the signal "beep. beep. beep."



ON (Red)

Lights when the operation is going on.

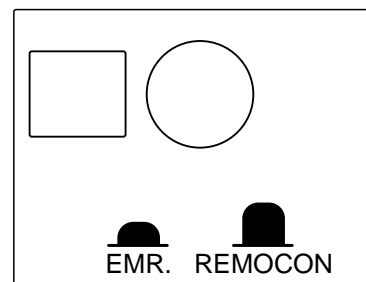
Air clean (Green)

Timer (Yellow)

Lights during the time reservation mode.

Quick (Red)

Switch Panel

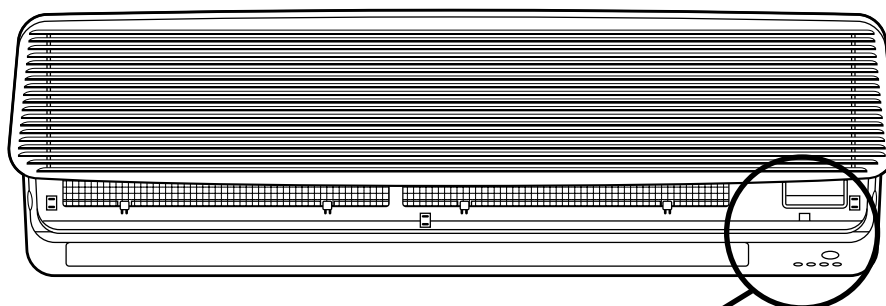


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Emergency switch can be used when the remote controller is lost or Testing.

Remote switch is usually used by remote controller.

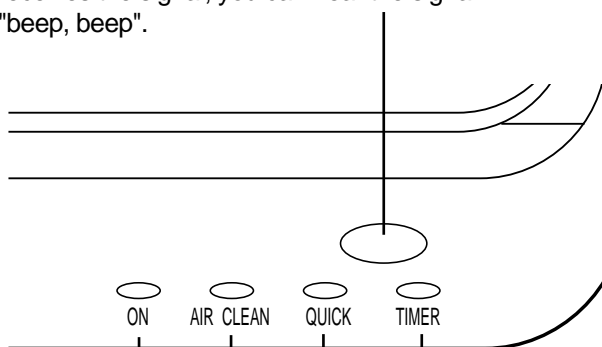
◆DSB-121L/122L



Indoor Unit Display

Remote Control Signal Receiver

This place is the part to receive the signal if it receives the signal, you can hear the signal "beep, beep".



ON (Red)

Lights when the operation is going on.

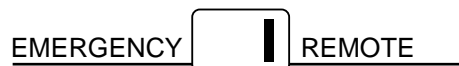
Air clean (Green)

Timer (Yellow)

Lights during the time reservation mode.

Quick (Red)

Switch Panel

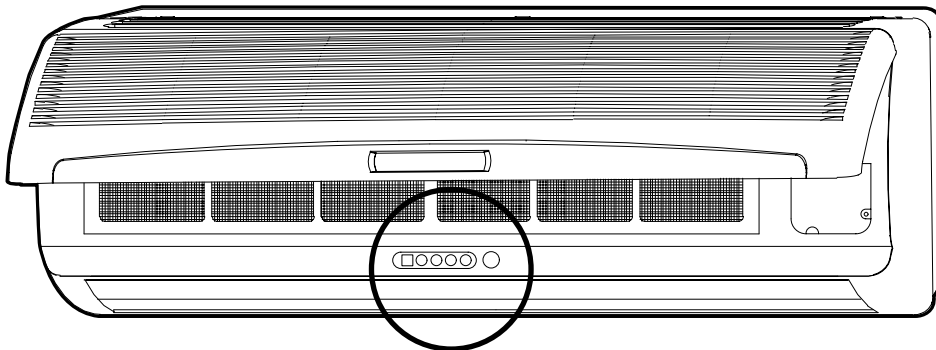


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Emergency switch can be used when the remote controller is lost or testing.

Remote switch is usually used by Remote Controller.

◆DSB-123L/DSA-123L



Indoor Unit Display

■Remote Control Signal Receiver

This place is the part to receive the signal if it receives the signal, you can hear the signal "beep. beep".



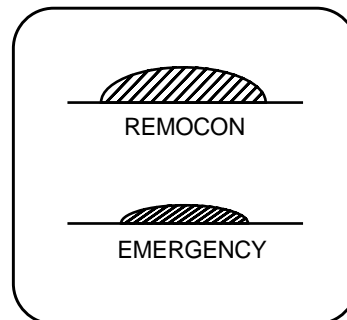
ON (Red)
Lights when the operation is going on.

Air clean (Green)

Quick (Red)
Lights during the time Quick Mode.

Timer (Yellow)
Lights during the time reservation mode.

Switch Panel

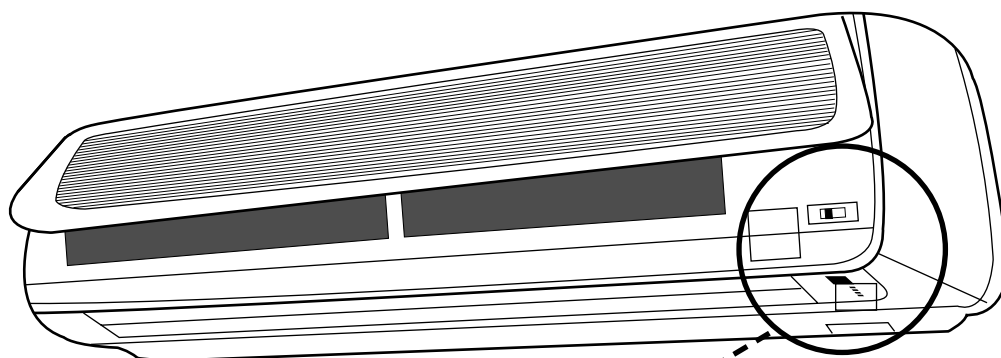


■There is a switch panel at inside of Front Panel. At the time of operating, open the Front Panel.

Emergency switch can be used when the remote controller is lost or Testing.

Remote switch is usually used by remote controller.

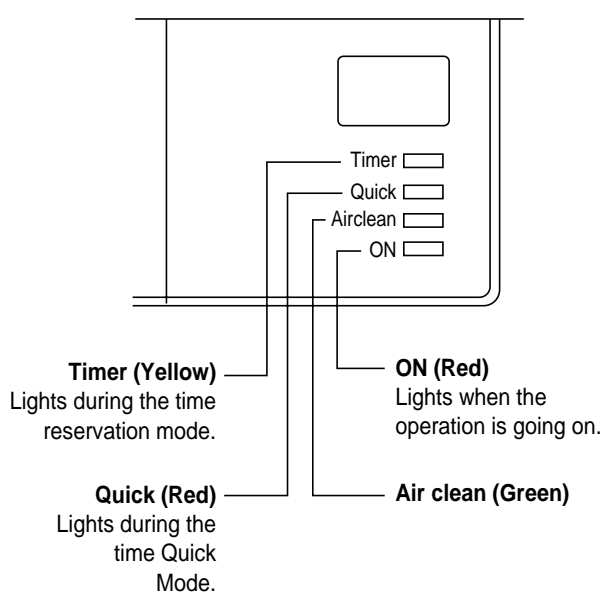
◆ DSB-181L/182L/182L-R, DSA-181L/182L



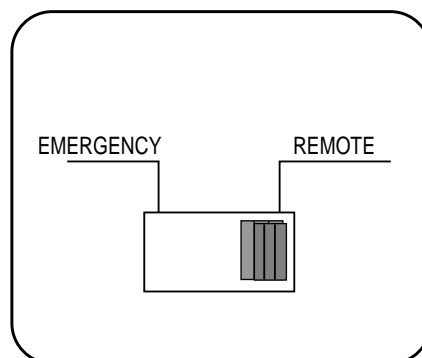
Indoor Unit Display

■ Remote Control Signal Receiver

This place is the part to receive the signal if it receives the signal, you can hear the signal “beep. beep”.



Switch Panel

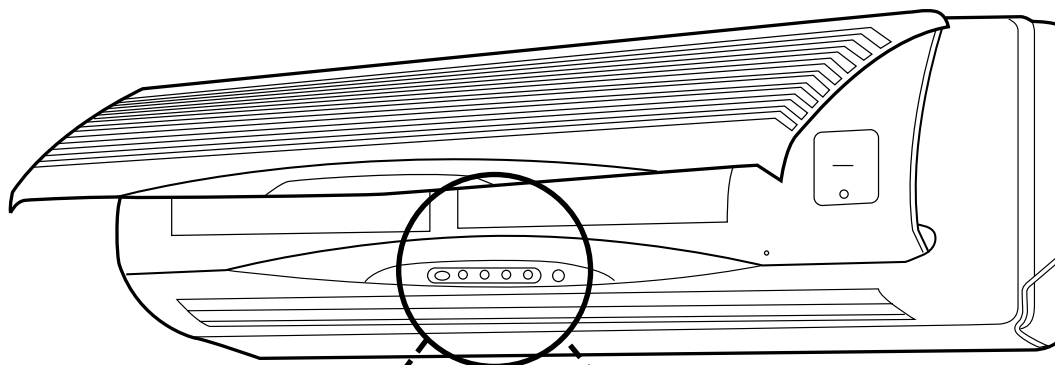


■ There is a switch panel at inside of Front Panel. At the time of operating, open the Front Panel.

Emergency switch can be used when the remote controller is lost or Testing.

Remote switch is usually used by remote controller.

◆ DSA-183L-R/240L-R, DSB-183L-R/240L-R, DSA-183L/240L



Indoor Unit Display

■ Remote Control Signal Receiver

This place is the part to receive the signal if it receives the signal, you can hear the signal "beep. beep, beep."



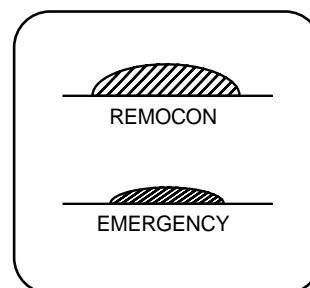
ON (Red)
Lights-on
during the operation

Air clean (Green)

Timer (Yellow)
Lights-on during the time
of reservation mode.

Quick (Red)
Lights-on during the time
of Quick Mode.

Switch Panel



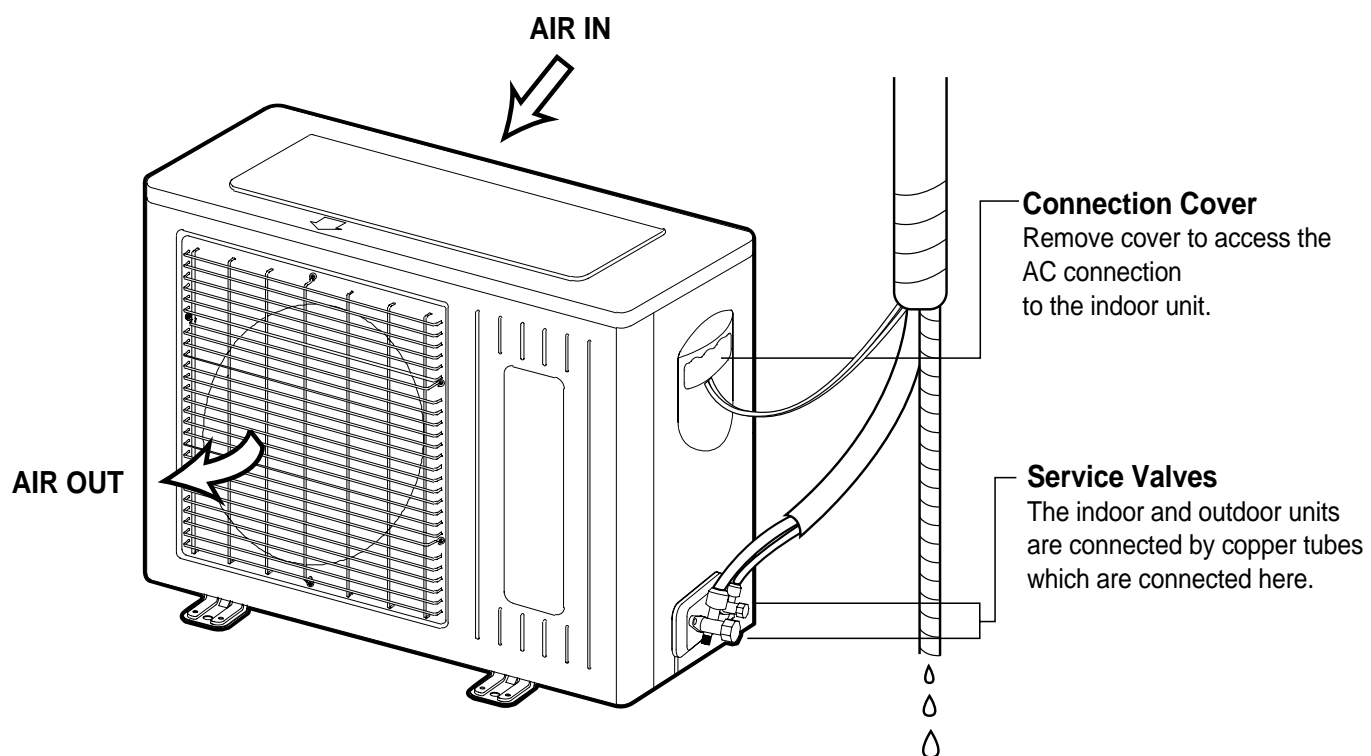
■ There is a switch panel at inside of Front Panel. At the time of operating, open the Front Panel.

Emergency switch can be used when the remote controller is lost or Testing.

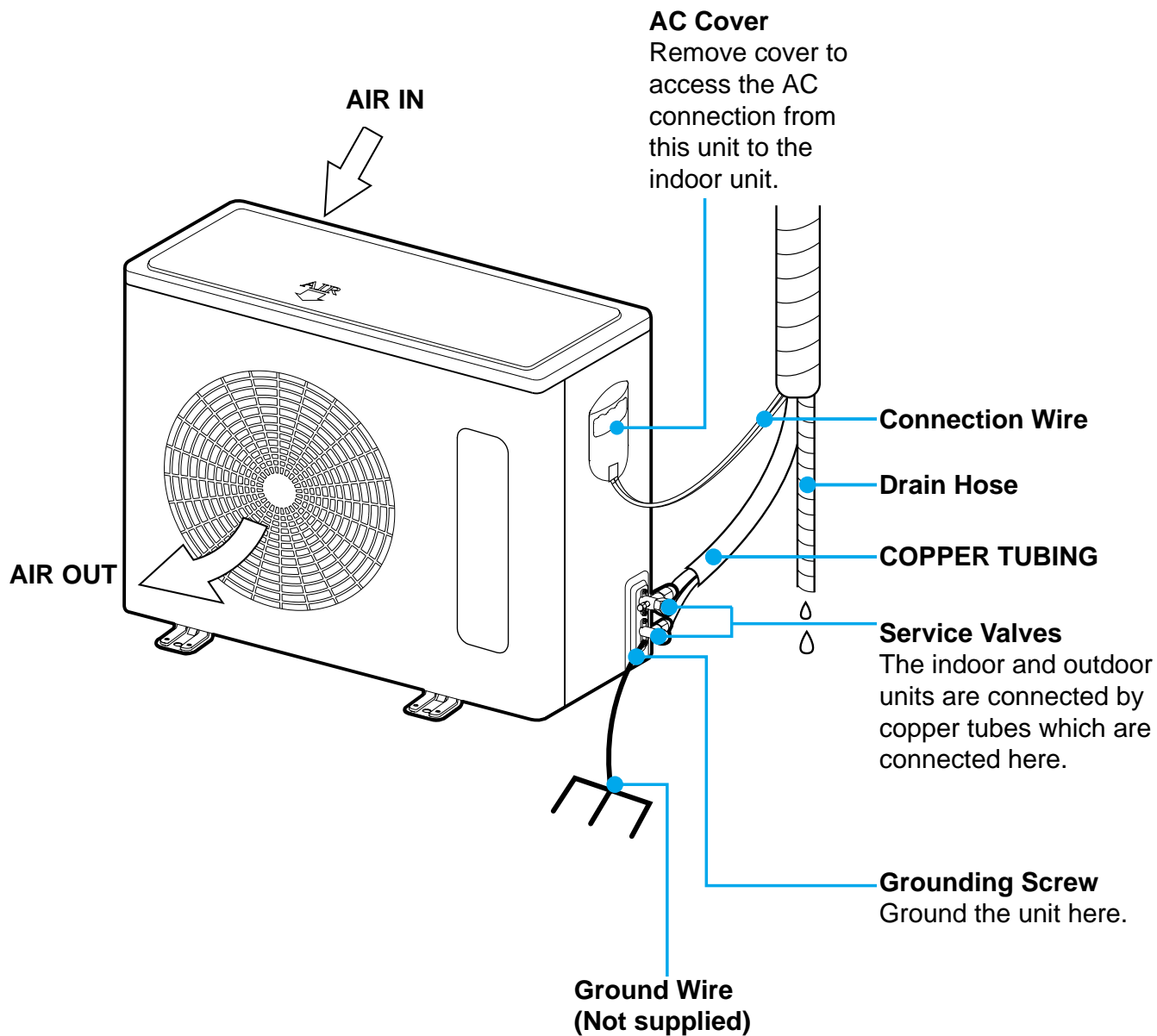
Remote switch is usually used by remote controller.

Outdoor Unit

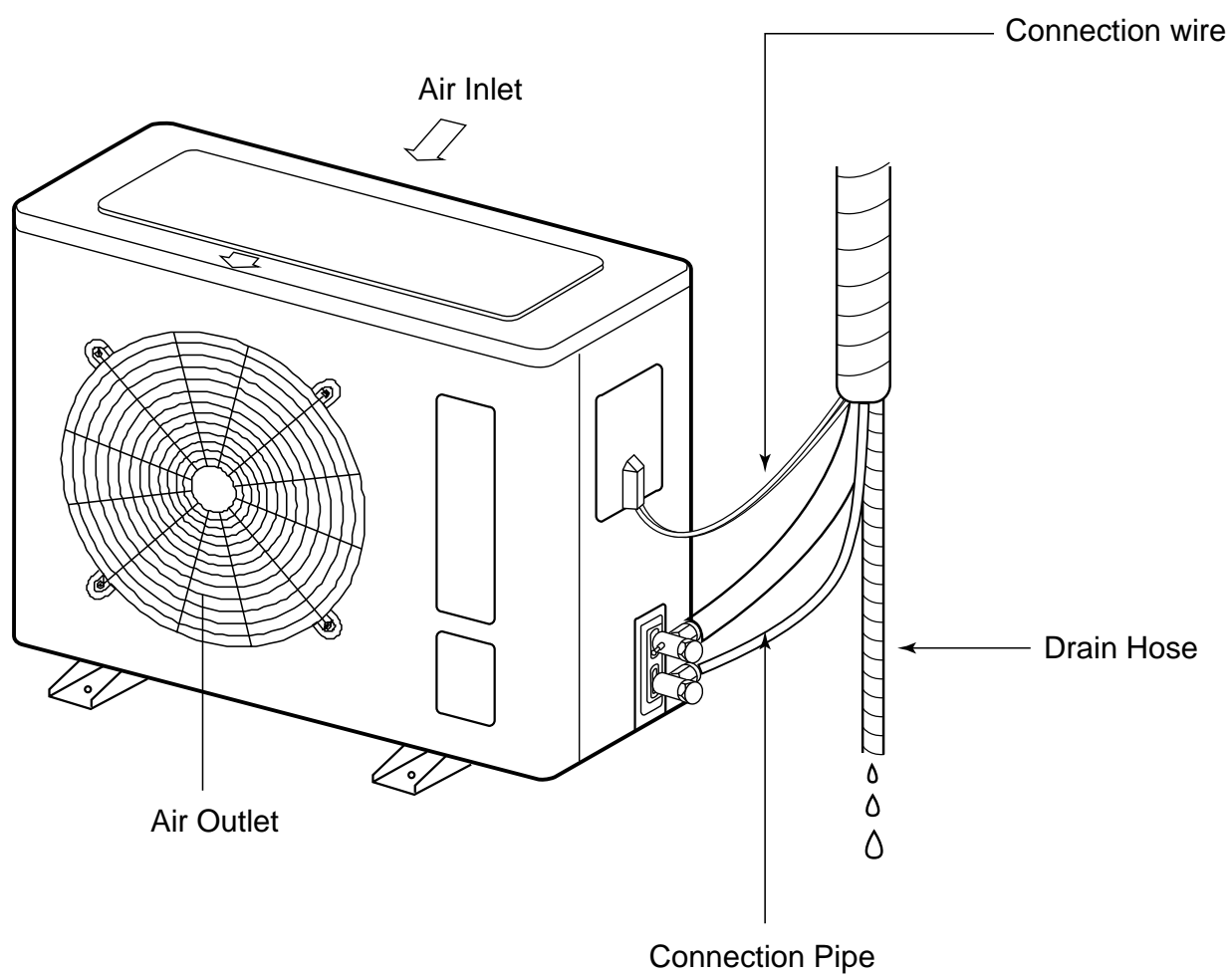
◆DSB-070L/071L/DSB-091L/092L/DSB-121L/122L/123L/DSA-123L



◆ DSB-181L/182L/182L-R/183L-R, DSA-181L/182L/183L/183L-R



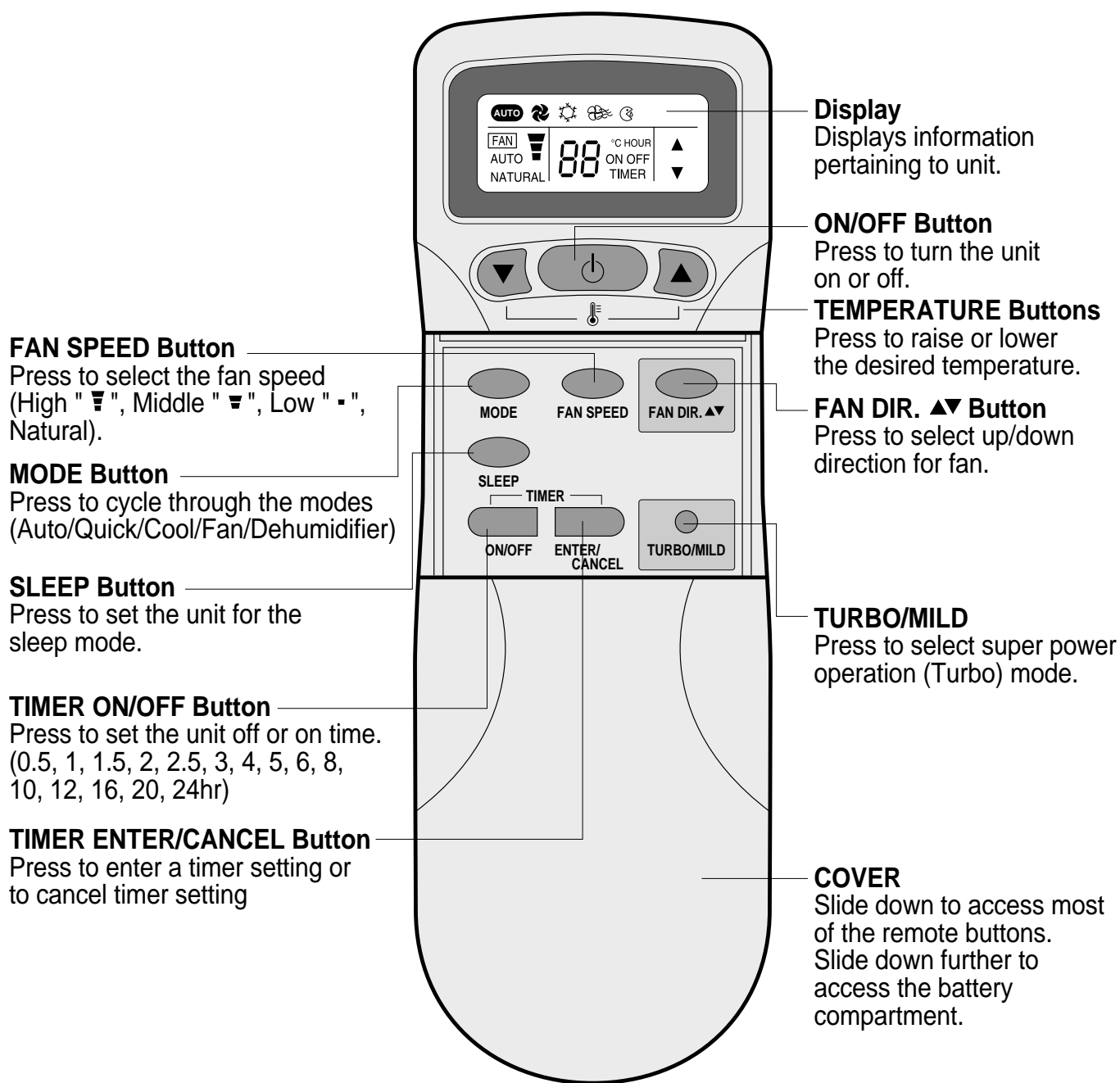
DSB-240L-R / DSA-240L-R / DSA-240L



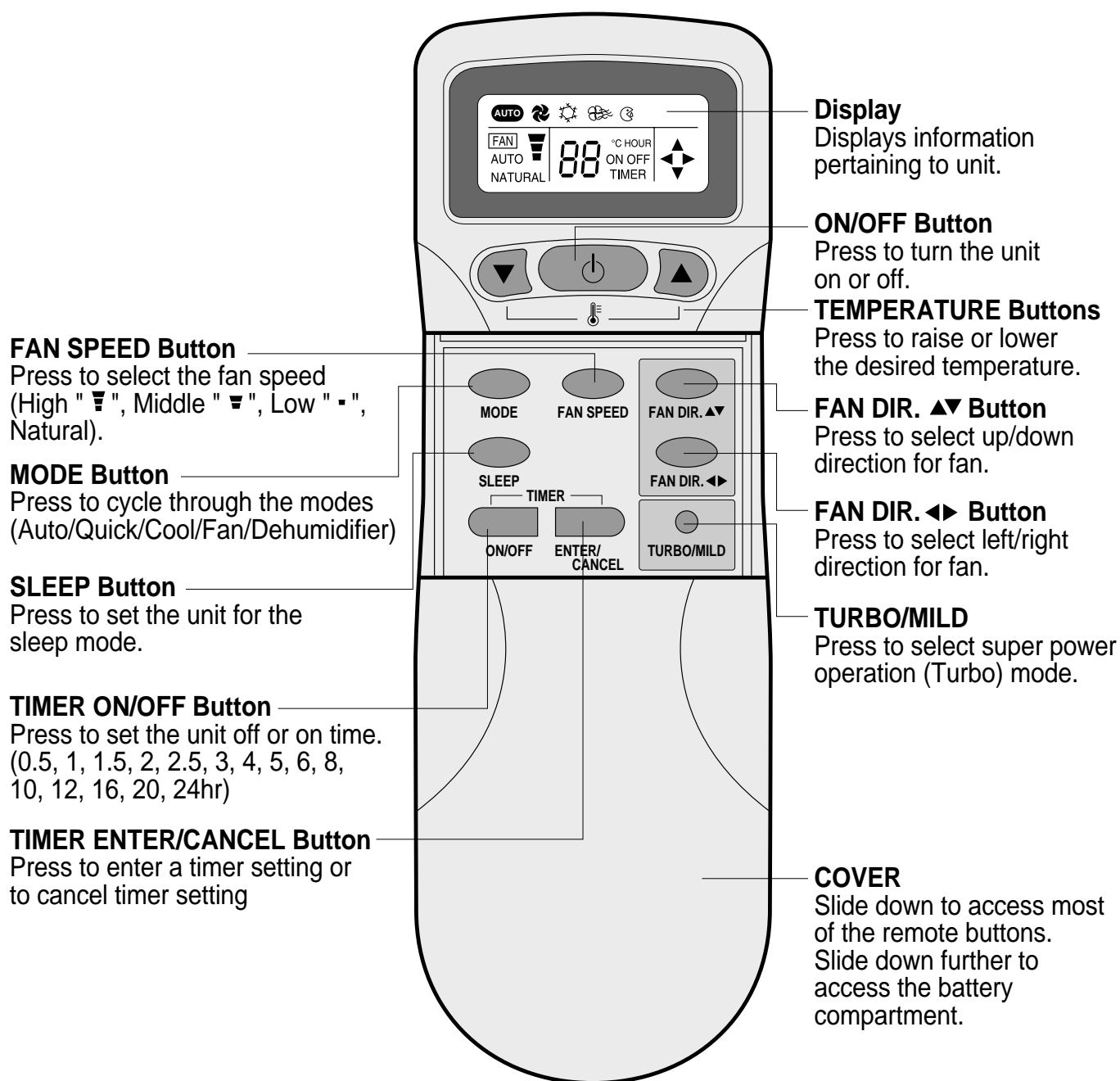
2 REMOTE CONTROLLER

Name of Each Button

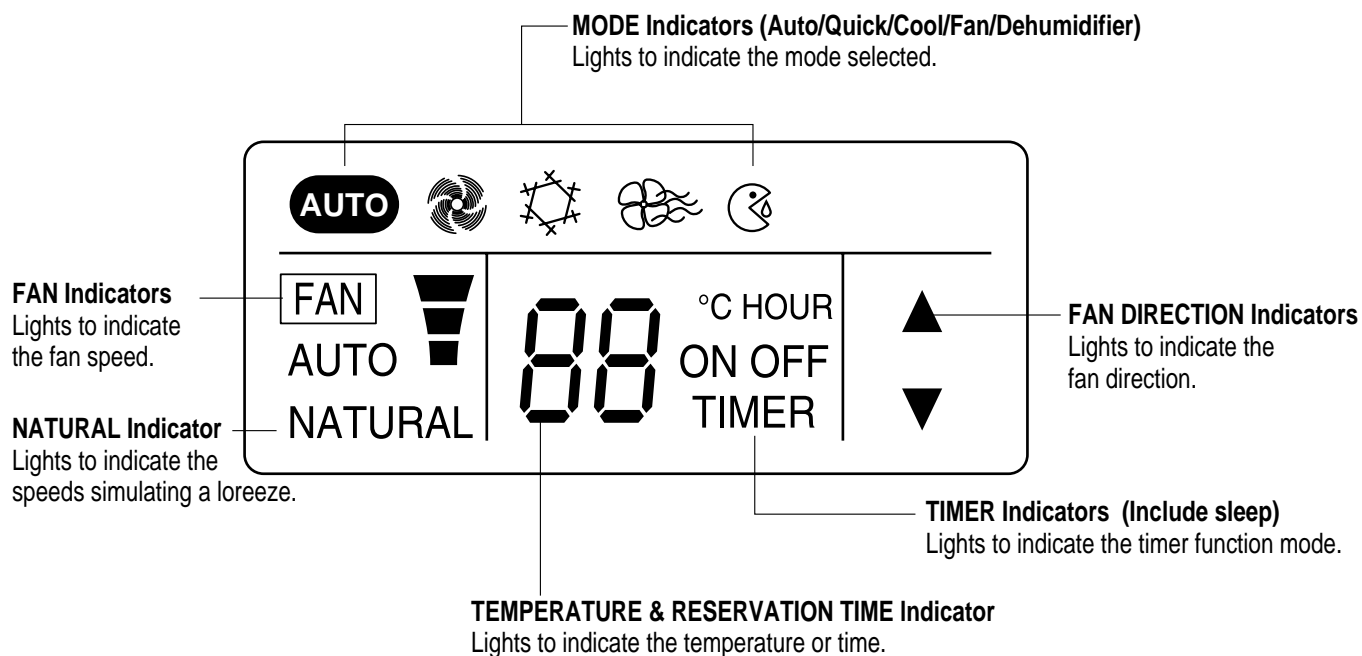
◆ DSB-070L/DSB-071L/DSB-091L/DSB-092L/DSB-121L/DSB-122L/DSB-123L/DSA-123L
DSB-183L-R/DSA-183L-R/DSB-240L-R/DSA-240L-R



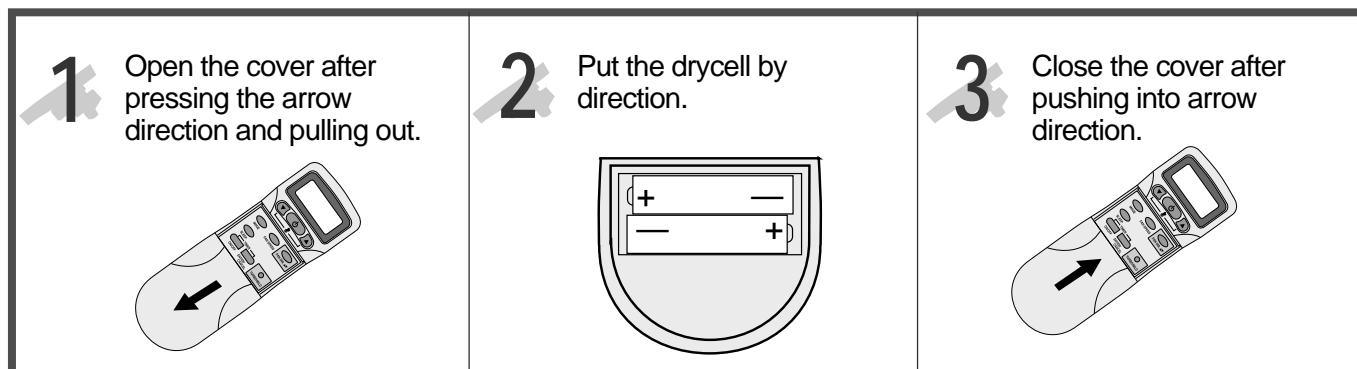
◆DSB-182L/182L-R, DSA-182L/DSA-181L



3 REMOTE CONTROLLER DISPLAY



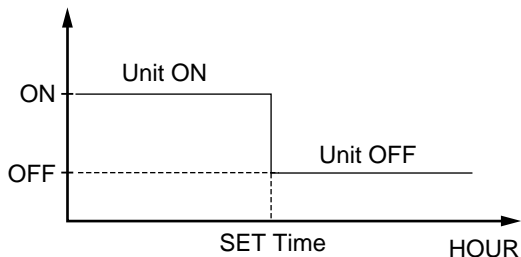
Replacing Batteries



4 DESCRIPTION OF FUNCTIONS

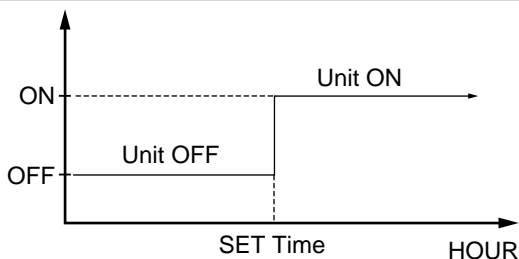
OFF-Timer

If you set time in OFF-Timer Mode, the unit will stop at the set time.



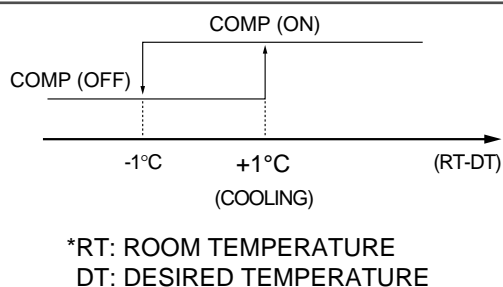
ON-Timer

If you set time in ON-Timer Mode, the unit will run at the set time.



Control of Room Temperature

- (1) Range of setting temperature: 18~32°C
- (2) Setting temperature: Operating temperature of compressor



- (3) During the time of test operating, Fan (Indoor, Outdoor) and Compressor is running regardless of room temperature.

Buzzer

If the Indoor Unit Display receive the signal of Remote Controller, you can hear the signal "beep—" or "beep, beep".

- (1) In the case of receiving ON/OFF signal-"beep" "beep"
- (2) And so on-"beep"

Fan Speed (Indoor Unit)

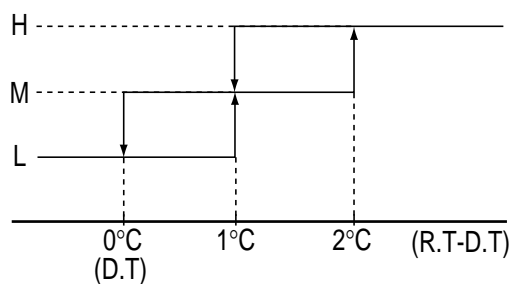
- (1) Motor speed (high speed, middle speed, low speed).
- (2) Remote controller setting fan speed. (Auto, L, M, H, Natural)
- (3) Relation of operating mode between fan speed.

	FAN ONLY	COOL	DEHUMI-DIFICATION	AUTO	QUICK
H	H	H	L	H	H
M	M	M	L	M	H
L	L	L	L	L	H
Auto	X	Auto	L	Auto	H
Natural	Natural	Natural	L	Natural	H

(4) Automatic Operation

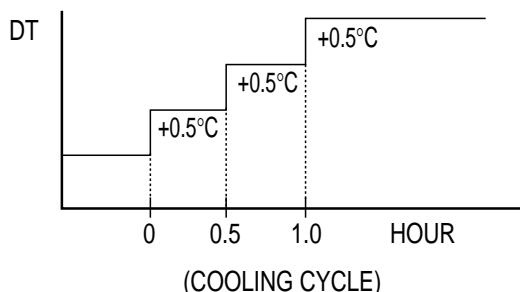
If the unit is set in 'AUTO' mode, the unit operates automatically according to the room temperature to keep the room temperature comfortable.

(COOLING)



Sleep Mode

- (1) When you are going to sleep, select sleep switch and the unit controls the room to the desired temperature.
(The unit will not operate after 4 hour)
- (2) For changing the temperature.



- (3) To cancel sleep mode, press the SLEEP button again or press the MODE button once.: the SLEEP indicator will disappear in the display.

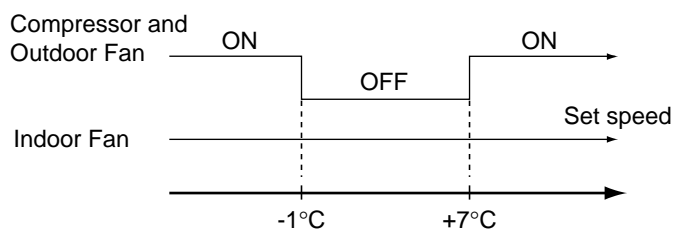
Emergency Operation

- (1) When the remote controller is lost, damaged or the battery is discharged, the Emergency operation can be used to run the unit.
 - (2) The setting conditions of Emergency operation are as follows.
 - Operation mode: Quick
 - Preset temperature: 18°C: Cooling
 - Fan speed: High
- *You cannot operate with remote controller.

Frost Prevention of Indoor Unit

When the unit operates at low ambient temperature, frost may appear on the Evaporator. When the indoor coil temperature is lower than 0°C at the end of 10 minutes of continuous compressor operation from the start, the microcomputer of the unit stops the compressor to protect the unit from the frost. The control procedure for indoor coil freeze protection.

- 1) The compressor and outdoor fan turn off.
- 2) Indoor fan operates according to user set speed.
- 3) The normal operation returns when the indoor coil temperature is higher than 7°C or equal to 7°C.



(Indoor coil temperature)

3 min. Time Delay of Compressor

In normal operation, there is a time delay of three minutes between turn off and turning back on including initial power up.

Auto Mode

(1) In Auto Mode

After the indoor fan is operated for 20 seconds in the Auto Mode the unit will operate automatically by selecting operating Mode according to the room temperature

(RT: Room temperature)

ROOM TEMPERATURE	OPERATING MODE	FLAP POSITION
$DT-2^{\circ}\text{C} > RT$	Cooling	Cooling Position
$DT-2^{\circ}\text{C} \leq RT \leq DT+3^{\circ}\text{C}$	Dehumidifier	Cooling Position
$DT+3^{\circ}\text{C} < RT$	Cooling	Cooling Position

(2) Selecting Operating Mode Again

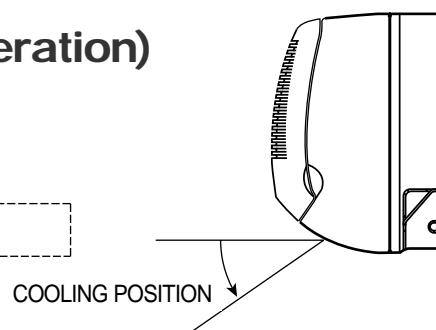
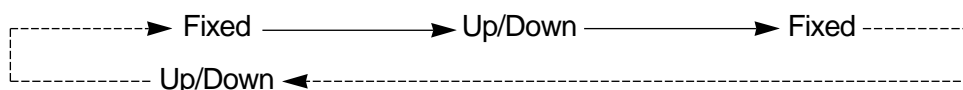
Room temperature meets desired temperature and the compressor stops running over 30 minutes, then the unit selects operating Mode again.

Dehumidification Mode

- ① Desired temperature < Room temperature
Outdoor Fan, Compressor : ON
Indoor Fan : Low speed
- ② Desired temperature ≥ Room temperature
Compressor : 3 min/ON, 5 min/OFF
Fan Speed : low speed
- ③ Room temperature ≤ 18°C
Compressor : OFF
Fan speed : Low speed

Air Discharge Direction(only remocon operation)

The air discharge direction procedure is below.



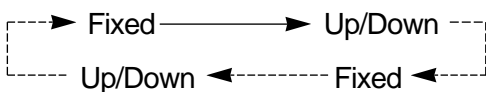
Quick Mode(Powerful Cooling)

1) Cooling Mode

* When the room temperature is higher than 22°C

- ① Fan Speed: Super high speed
- ② Air discharge direction: Fixed
- ③ Set temperature: 18°C (Fixed)
- ④ Compressor and Outdoor Fan

The air discharge direction procedure is below

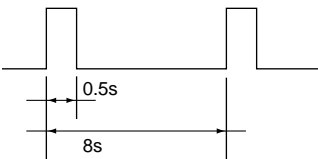



Self-Diagnostic Function

The control will contain diagnostic test to verify the integrity of the system.

(1) Error Code Display Pattern

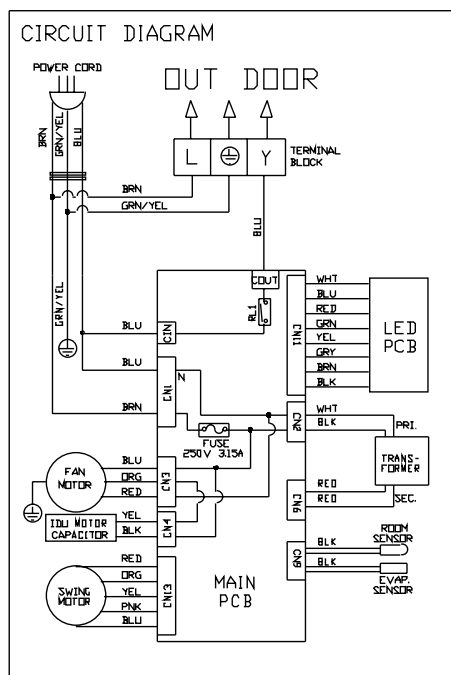
① ON LAMP: Blink

LED BLINK PATTERN	CASE	NOTE
 <p>1 times blink</p>	Room Sensor open or Short	<ul style="list-style-type: none"> Continuously working to fix room temperature 32°C in cooling mode
	<ul style="list-style-type: none"> I/D coil sensor open or short O/D coil sensor open or short 	Do not working
 <p>3 times blink</p>	<ul style="list-style-type: none"> Compressor or electrical parts of compressor error. Gas leak 	Continuously working

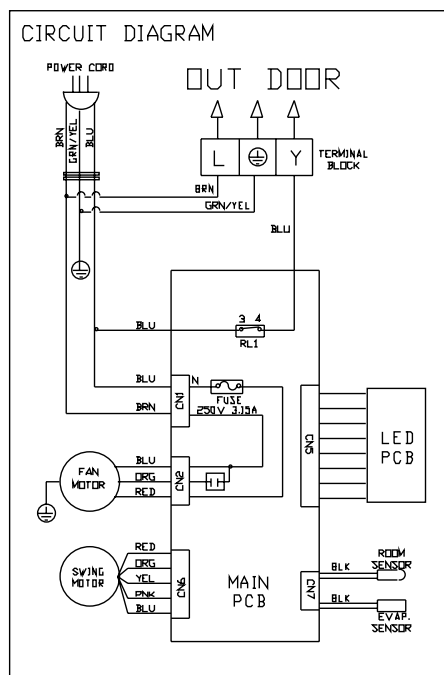
4. WIRING DIAGRAM

Indoor Unit

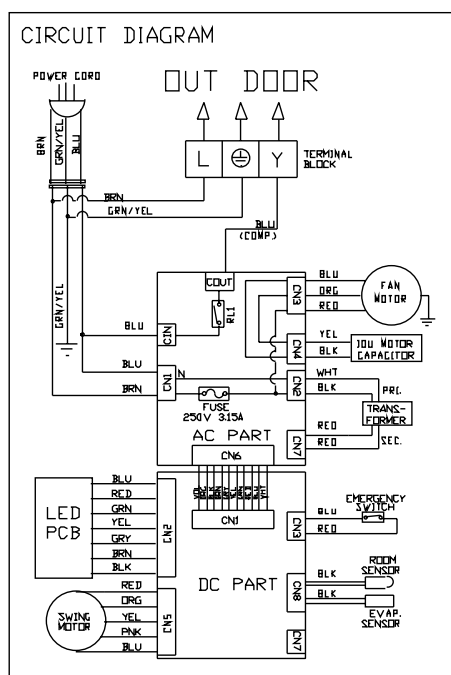
◆DSB-070L/091L



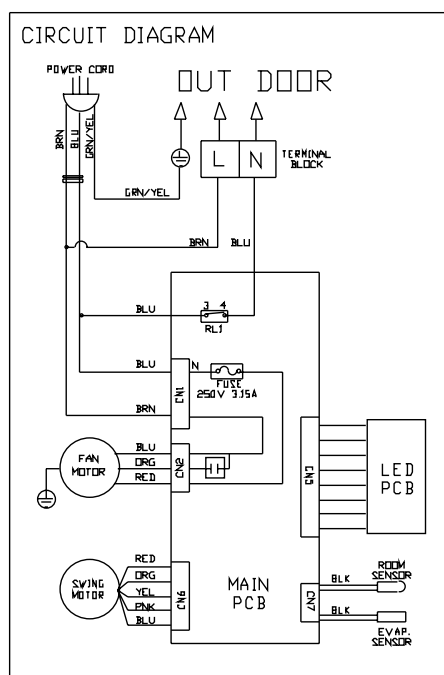
◆DSB-071L/092L



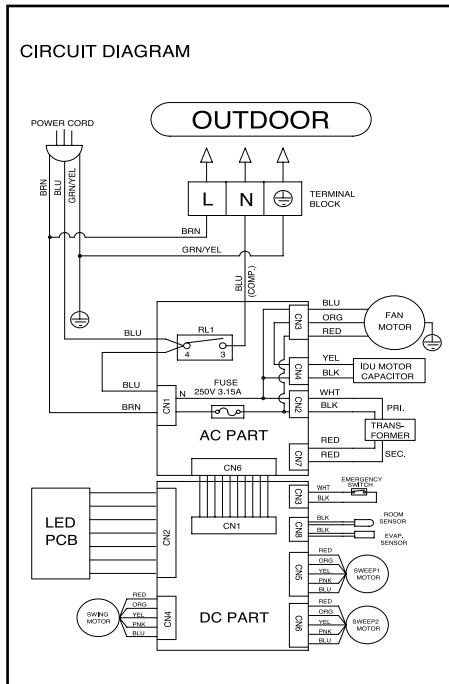
◆DSA-121L/122L, DSB-121L/122L



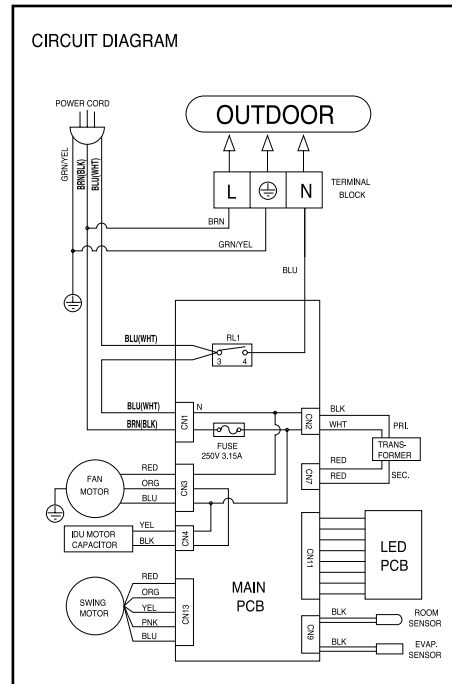
◆DSB-123L/DSA-123L



◆ DSA-181L/182L
DSB-181L/182L/182L-R



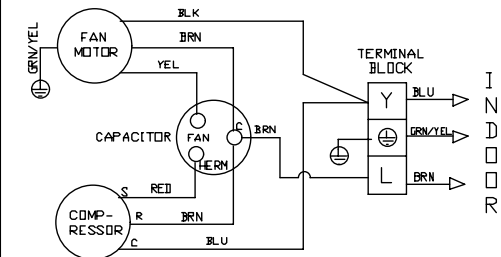
◆ DSA-183L-R, DSB-183L-R, DSA-183L
DSA-240L-R, DSB-240L-R, DSA-240L



Outdoor Unit

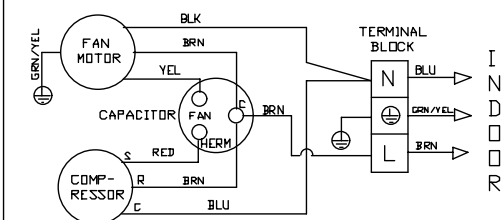
◆DSA-121L/122L, DSB-070L/071L DSB-091L/092L/121L/122L

CIRCUIT DIAGRAM



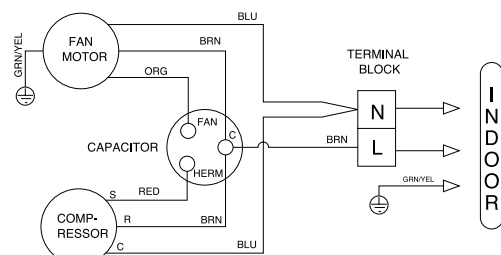
◆DSB-123L/DSA-123L

CIRCUIT DIAGRAM



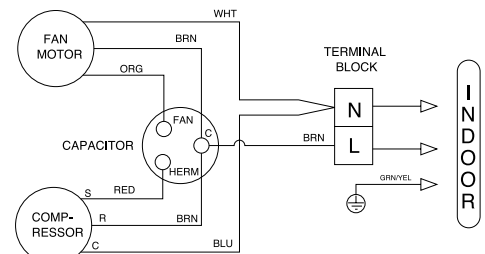
◆DSA-181L/182L, DSB-181L/182L/182L-R, DSA-183L-R, DSB-183L-R, DSA-183L

CIRCUIT DIAGRAM



◆DSA-240L-R/240L, DSB-240L-R

CIRCUIT DIAGRAM



1 MAIN ELECTRIC PARTS

◆DSB-070L/071L

	PART NAME	PART CODE	SPEC.	QUANTITY	REMARK
Indoor Unit	Fan Motor	3108008700	YDK-8-4B	1	
	Fan Motor Capacitor	3106900300	1.0μF 400VAC	1	
	Fuse	5FVLB3152L	250V 3.15A	1	
	Stepping Motor	3108003910	24BYJ48-S1	1	
	Terminal Block	3108914100	JXO-CH-3P	1	
Outdoor Unit	Compressor	3RC0020GE1	RBB070A011	1	
	Fan Motor	3108004000	YDK-30-6B	1	
	Dual Capacitor	3109501201	1.8+25μF 400VAC	1	
	Terminal Block	3108914100	JXO-CH-3P	1	

◆DSB-091L/092L

	PART NAME	PART CODE	SPEC.	QUANTITY	REMARK
Indoor Unit	Fan Motor	3108008700	YDK-8-4B	1	
	Fan Motor Capacitor	3106900300	1.0μF 400VAC	1	
	Fuse	5FVLB3152L	250V 3.15A	1	
	Stepping Motor	3108003910	24BYJ48-S1	1	
	Terminal Block	3108914100	JXO-CH-3P	1	
Outdoor Unit	Compressor	3RC0020KE0	RBB095A011	1	
	Fan Motor	3108004100	YDK-30-6B	1	
	Dual Capacitor	3109501201	1.8+25μF 400VAC	1	
	Terminal Block	3108914100	JXO-CH-3P	1	

◆DSB-121L/122L

	PART NAME	PART CODE	SPEC.	QUANTITY	REMARK
Indoor Unit	Fan Motor	3108001220	YDK-8-4B/A	1	
	Fan Motor Capacitor	3106900300	1.0μF 400VAC	1	
	Fuse	5FVLB3152L	250V 3.15A	1	
	Transformer	5EPV050100	220V/18V	1	
	Stepping Motor	3108000200	28BYJ48-V2	1	
	Terminal Block	3108914100	JXO-CH-3P	1	
Outdoor Unit	Compressor	3100030CE0	RCB120A001	1	
	Fan Motor	3108000800	YDK-40-4B	1	
	Dual Capacitor	3109500700	3.5+25μF 400VAC	1	
	Terminal Block	3108914100	JXO-CH-3P	1	

◆DSB-123L/DSA-123L

	PART NAME	PART CODE	SPEC.	QUANTITY	REMARK
Indoor Unit	Fan Motor	3118003500	RP13B	1	
	Fan Motor Capacitor	CMXW2G155K	1.5uF, 400VAC	1	
	Fuse	5FVLB3152L	250V 3.15A	1	
	Stepping Motor	3108003910	24BYJ48-S1	1	
	Terminal Block	3118900200	JXO-CH-2P	1	
Outdoor Unit	Compressor	3100030CE0	RCB120A001	1	DSB-123L
		3117148500	QK164KAJ	1	DSA-123L
	Fan Motor	3108000800	YDK-40-4B	1	DSB-123L
		3118007300	KDK-35-6A	1	DSA-123L
	Dual Capacitor	3109500700	3.5+25μF 400VAC	1	DSB-123L
		3109502010	2+25μF 400VAC	1	DSA-123L
	Terminal Block	3108914100	JXO-CH-3P	1	

DSB-181L/182L/182L-R

	PART NAME	PART CODE	SPEC.	QUANTITY	REMARK
Indoor Unit	Fan Motor	3108000311	IC-9425DWKC5C	1	
	Fan Motor Capacitor	3106900200	1.2μF 450VAC	1	
	Fuse	5FVLB3152L	250V 3.15A	1	
	Transformer	5EPV633110	220V 50Hz	1	
	Stepping Motor	3108000200	28BYJ48-V2	2	
	Terminal Block	3108914100	JXO-CH-3P	1	
Outdoor Unit	Compressor	3107140100	SHW-33TC4-U	1	DSB-181L/182L
		3100068010	AWG5524EXC	1	DSB-182L-R
	Fan Motor	3108009100	YDK-50-6B	1	
	Dual Capacitor	3116901800	3+50μF 400VAC	1	
	Terminal Block	3118900210	JXO-CH-3P	1	

DSA-183L/183L-R

	PART NAME	PART CODE	SPEC.	QUANTITY	REMARK
Indoor Unit	Fan Motor	3108007500	IC-9430DWKG7A	1	
	Fan Motor Capacitor	3106902400	2uF 400VAC	1	
	Fuse	5FVLB3152L	250V 3.15A	1	
	Transformer	5EPV050120	DWA220B	1	
	Stepping Motor	3108007600	GSP-24RW-062	1	
	Terminal Block	3108914100	JXO-CH-3P	1	
Outdoor Unit	Compressor	3100091700	RCA180T001	1	DSA-183L
		3100068110	AWG5519EXN	1	DSA-183L-R
	Fan Motor	3108000521	IC-1625DWLF6B	1	
	Dual Capacitor	3116902500	4+25μF 440VAC	1	
	Terminal Block	3118900210	JXO-CH-2P	1	

DSB-183L-R

	PART NAME	PART CODE	SPEC.	QUANTITY	REMARK
Indoor Unit	Fan Motor	3108003800	220/50/60Hz	1	
	Fan Motor Capacitor	3106902400	2.0uF 400VAC	1	
	Fuse	5FVLB3152L	250V 3.15A	1	
	Stepping Motor	3108007600	GSP-24RW-062	1	
	Terminal Block	3108914100	JXO-CH-3P	1	
Outdoor Unit	Compressor	3100068010	AWG5524EXC	1	
	Fan Motor	3108009100	YDK-50-6B	1	
	Dual Capacitor	3116901800	3+50μF 400VAC	1	
	Terminal Block	3108914100	JXO-CH-3P	1	

DSB-240L-R

	PART NAME	PART CODE	SPEC.	QUANTITY	REMARK
Indoor Unit	Fan Motor	3108003800	220/50/60Hz	1	
	Fan Motor Capacitor	3106902400	2.0uF 400VAC	1	
	Fuse	5FVLB3152L	250V 3.15A	1	
	Stepping Motor	3108007600	GSP-24RW-062	1	
	Terminal Block	3108914100	JXO-CH-3P	1	
Outdoor Unit	Compressor	3100068201	AWG-5530EXC	1	
	Fan Motor	3108001500	220V/60Hz	1	
	Dual Capacitor	3100902500	5/30μF 400VAC	1	
	Terminal Block	3118900210	JXO-CH-2P	1	

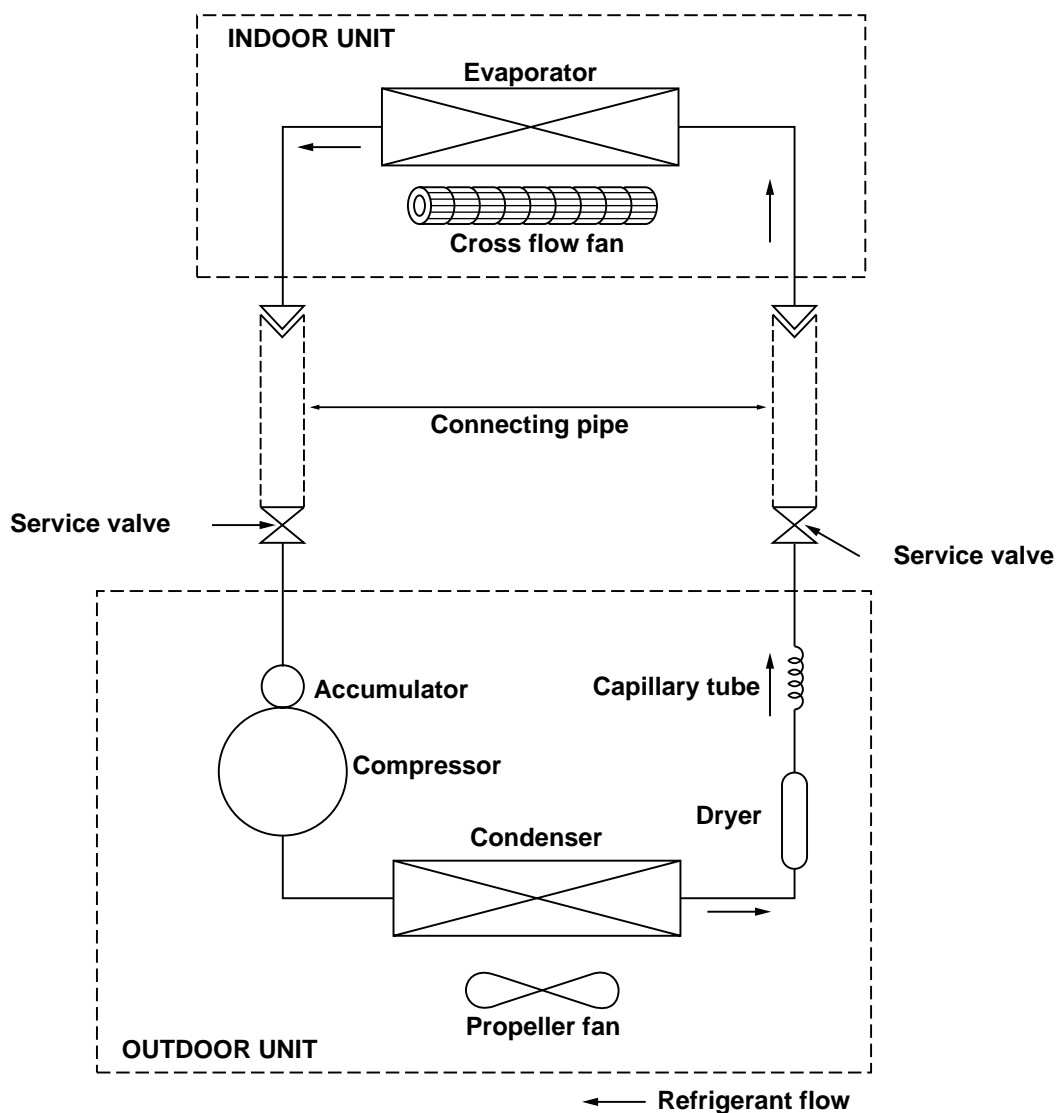
DSA-240L/240L-R

	PART NAME	PART CODE	SPEC.	QUANTITY	REMARK
Indoor Unit	Fan Motor	3108007500	IC-9430DWKF7A	1	
	Fan Motor Capacitor	3106902400	2μF 400VAC	1	
	Fuse	5FVLB3152L	250V 3.15A	1	
	Stepping Motor	3108007600	GSP-24RW-062	1	
	Terminal Block	3108914100	JXO-CH-3P	1	
Outdoor Unit	Compressor	3117147300	55A240IT1JM	1	DSA-240L
		3100068300	AWG5524EXN	1	DSA-240L-R
	Fan Motor	3108005800	OSME986DERC	1	
	Dual Capacitor	3109504810	5/35μF 400VAC	1	
	Terminal Block	3118900210	JXO-CH-2P	1	

DSA-181L/182L

	PART NAME	PART CODE	SPEC.	QUANTITY	REMARK
Indoor Unit	Fan Motor	3108000311	IC-9625DWKC5C	1	
	Fan Motor Capacitor	3106900200	1.2uF 450VAC	1	
	Fuse	5FVLB3152L	250V 3.15A	1	
	Transformer	5EPV633110	220V, 60Hz	1	
	Stepping Motor	3108004300	DC 12V, 400mm	2	
		3108004310	DC 12V, 1300mm	1	
Outdoor Unit	Terminal Block	3108912320	JXO-CH-3P	1	
	Compressor	3107140100	ECB185211A	1	
		3100068010	RCA180U001	1	
	Fan Motor	3108009100	YDK-50-6A	1	
	Dual Capacitor	3116901800	3+35 400VAC	1	
	Terminal Block	3118900210	JXO-CH-3P	1	

5. REFRIGERANT CYCLE



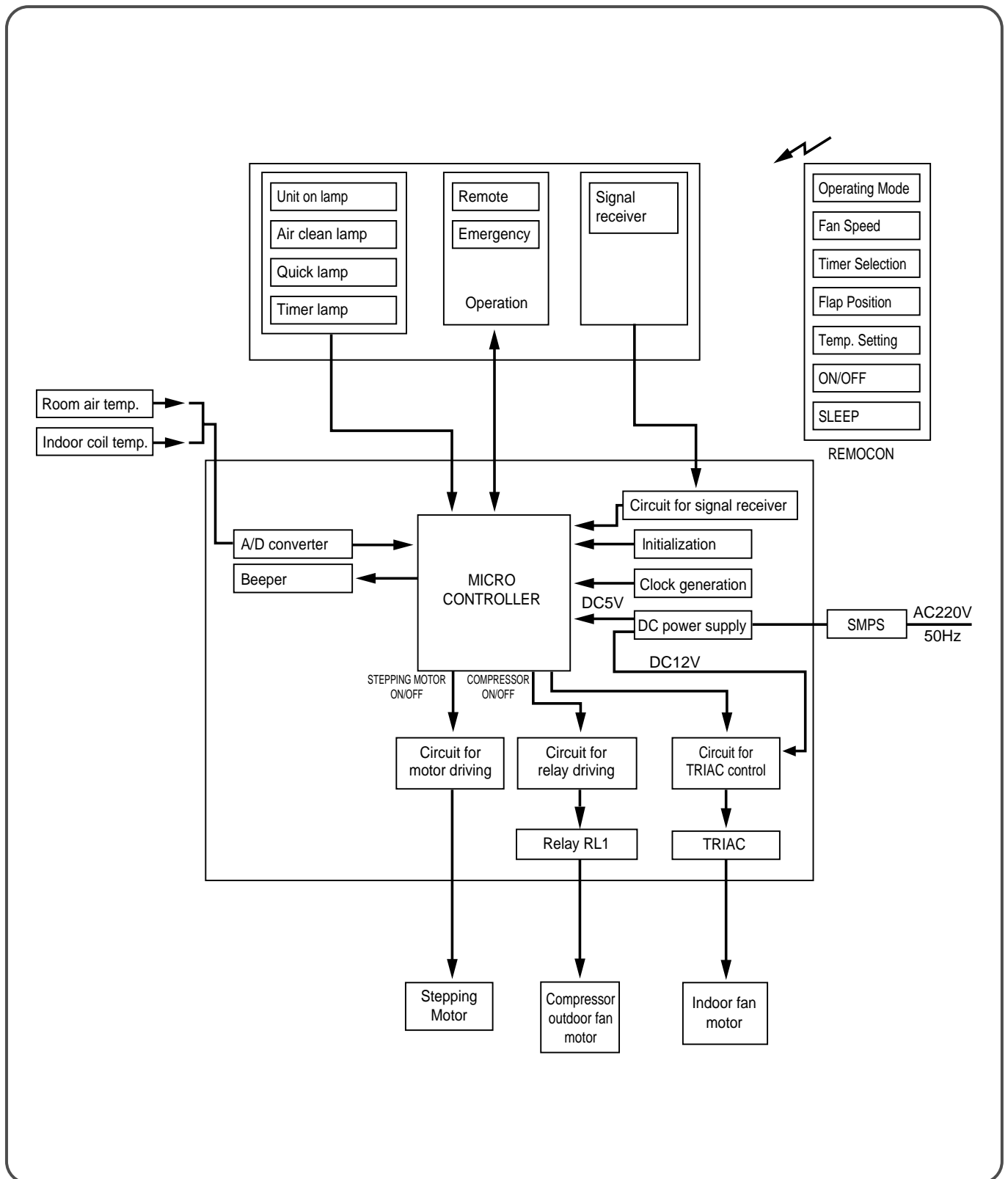
Note) If the pipe length exceeds the standard length, add 30g of refrigerant per extra meter.

Model Name Contents	DSB-070L/071L	DSB-091L/092L	DSB-121L/122L	DSB-123L	DSA-181L	DSB-240L-R	DSA-240L
Capillary Tube	IDØ1.6xODØ3.2x900L	IDØ1.6xODØ3.2x1200L	IDØ1.6xODØ3.2x600L	IDØ1.6xODØ3.2x600L	IDØ2.0xL1000	IDØ2.0xL500	IDØ2.0xL400
Charge Quantity	530 g	630 g	1,310 g	1,250 g	1,430 g	2,050g	2,100g

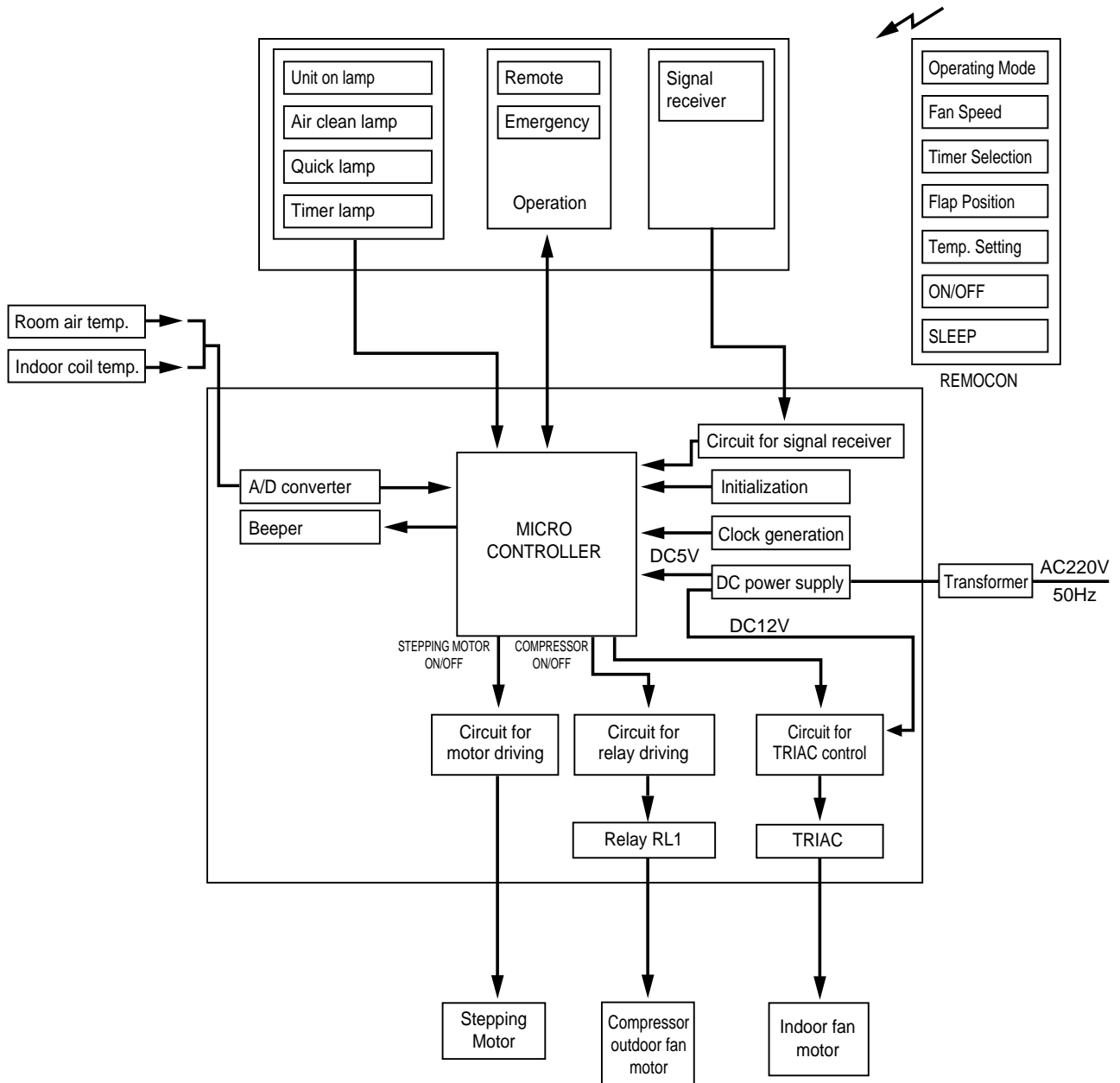
Model Name Contents	DSA-123L	DSB-181L	DSB-182L	DSB-182L-R	DSA-182L	DSA-183L-R	DSB-183L-R	DSA-240L-R
Capillary Tube	IDØ1.6 x L800	IDØ2.0 x L650	IDØ1.8 x L600	IDØ2.0 x L1000	IDØ1.8 x L600	IDØ2.0 x L800	IDØ2.0 x L1000	IDØ2.0 x L400
Charge Quantity	860 g	1,150 g	1,600 g	1,350 g	1,450 g	1,400 g	1,400 g	1,550 g

6. CONTROL BLOCK DIAGRAM

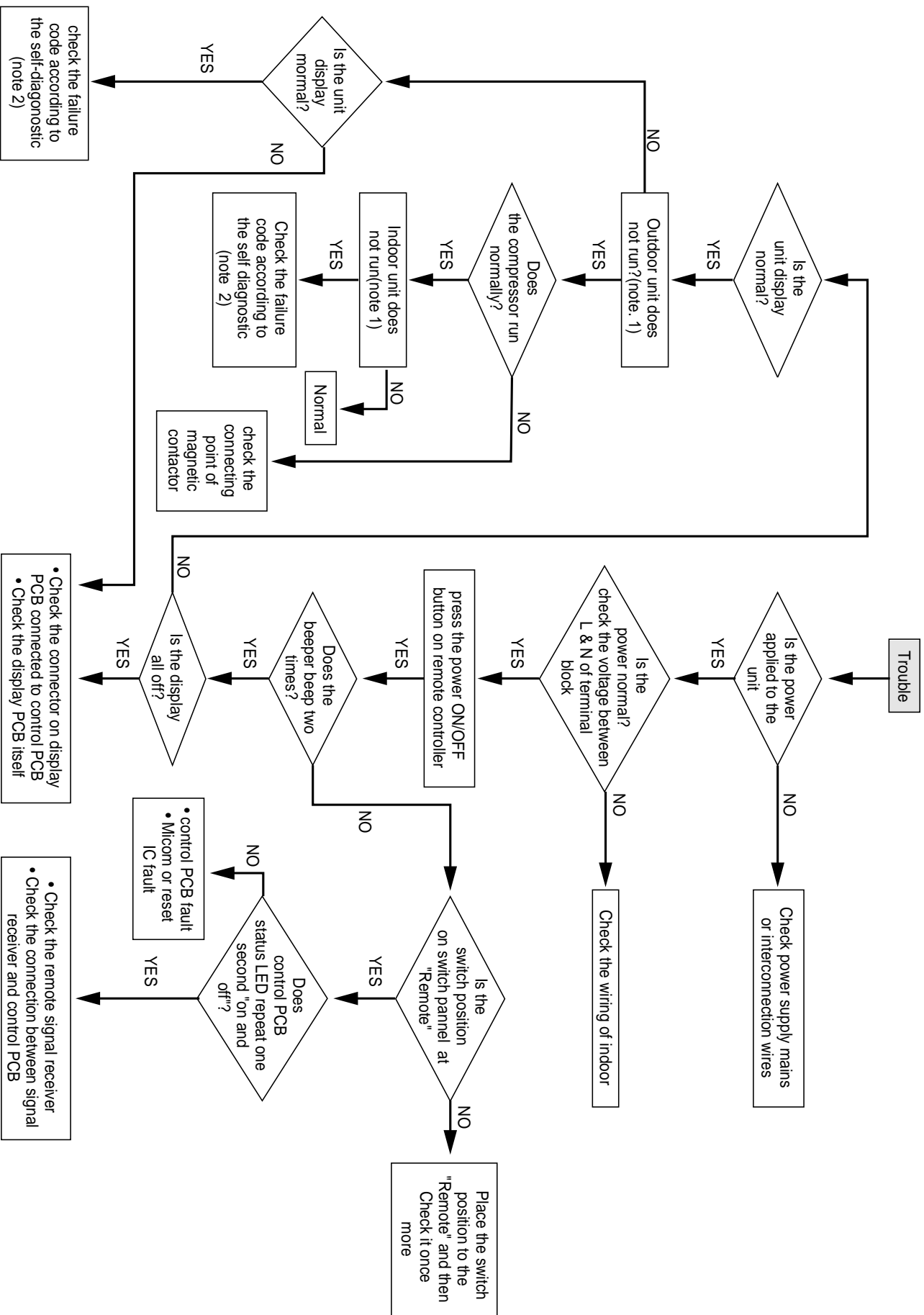
◆DSB-071L, 092L, 123L/DSA-123L



◆DSB-121L/DSB-122L/DSA-181L/DSB-181L/DSB-182L/182L-R/183L-R/DSA-183L-R/
DSA-183L/DSB-240L-R/DSA-240L-R/DSA-240L



7. TROUBLE SHOOTING



Note 1)

- ① Neither indoor unit nor outdoor unit runs.
Check the following points first. (There are following case in normal operation)
 - a. Is the timer mode set the "timer ON".
 - b. Is the timer mode set the "timer-OFF" and the time had passed?
- ② Neither outdoor fan nor compressor runs while indoor fan runs.
Check following points first. (There are following cases in normal operation)
 - a. Is the temperature set point suitable?
 - b. Has the 3 minutes time guard for compressor operated?

Self-Diagnostic Function

• Error Code •

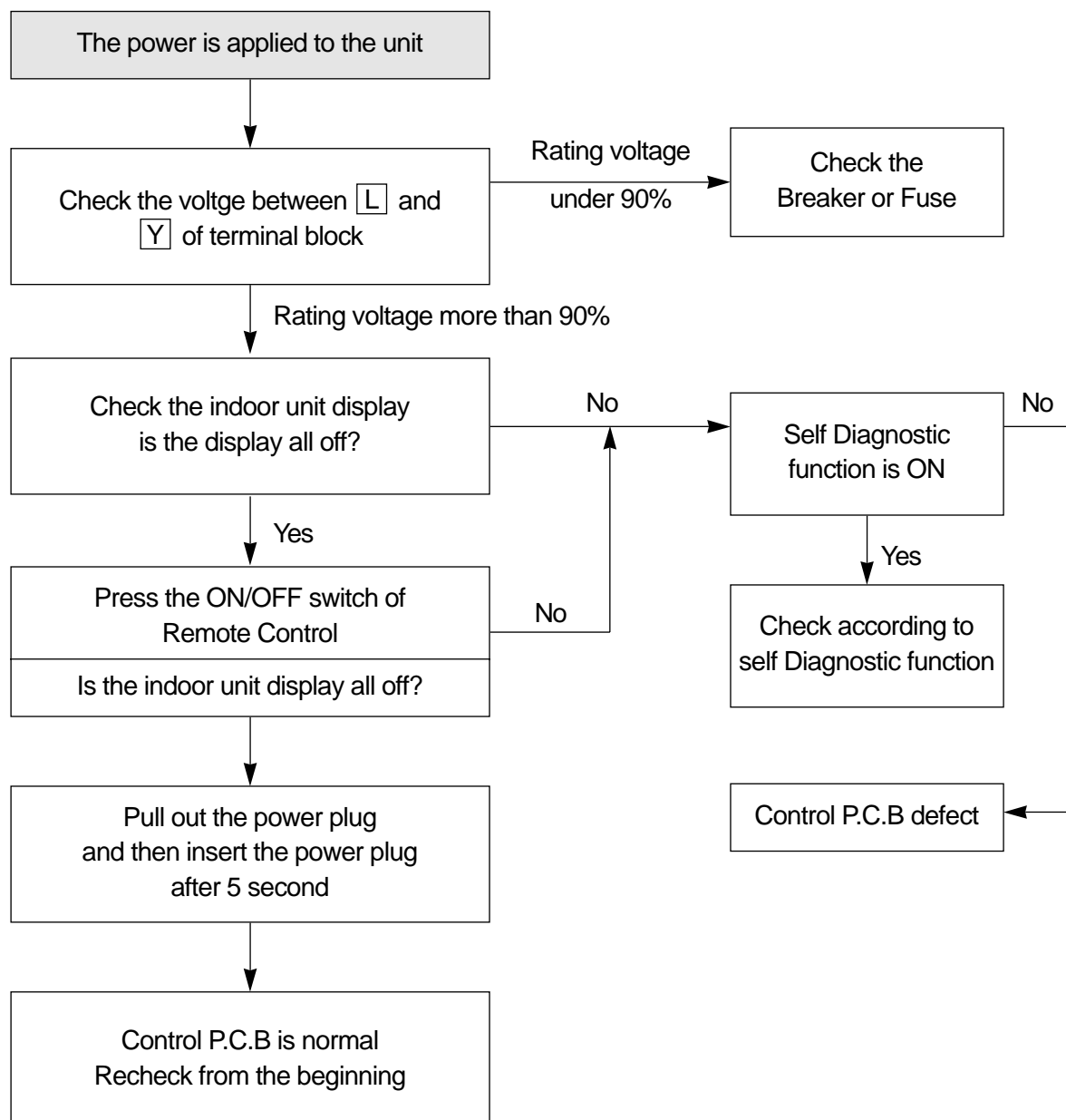
- ① When the compressor do not run.
 - i) Check the voltage between **L** and **Y** of terminal block.
(Indoor Unit, Outdoor Unit)
 - ii) Check connecting wire of indoor unit and outdoor unit.
 - iii) Check relay RL1 on power P.C.B
- ② Check fixing of indoor coil thermistor.
- ③ Check the GAS LEAKAGE of the pipe.

Neither Indoor Unit nor Outdoor Unit Runs

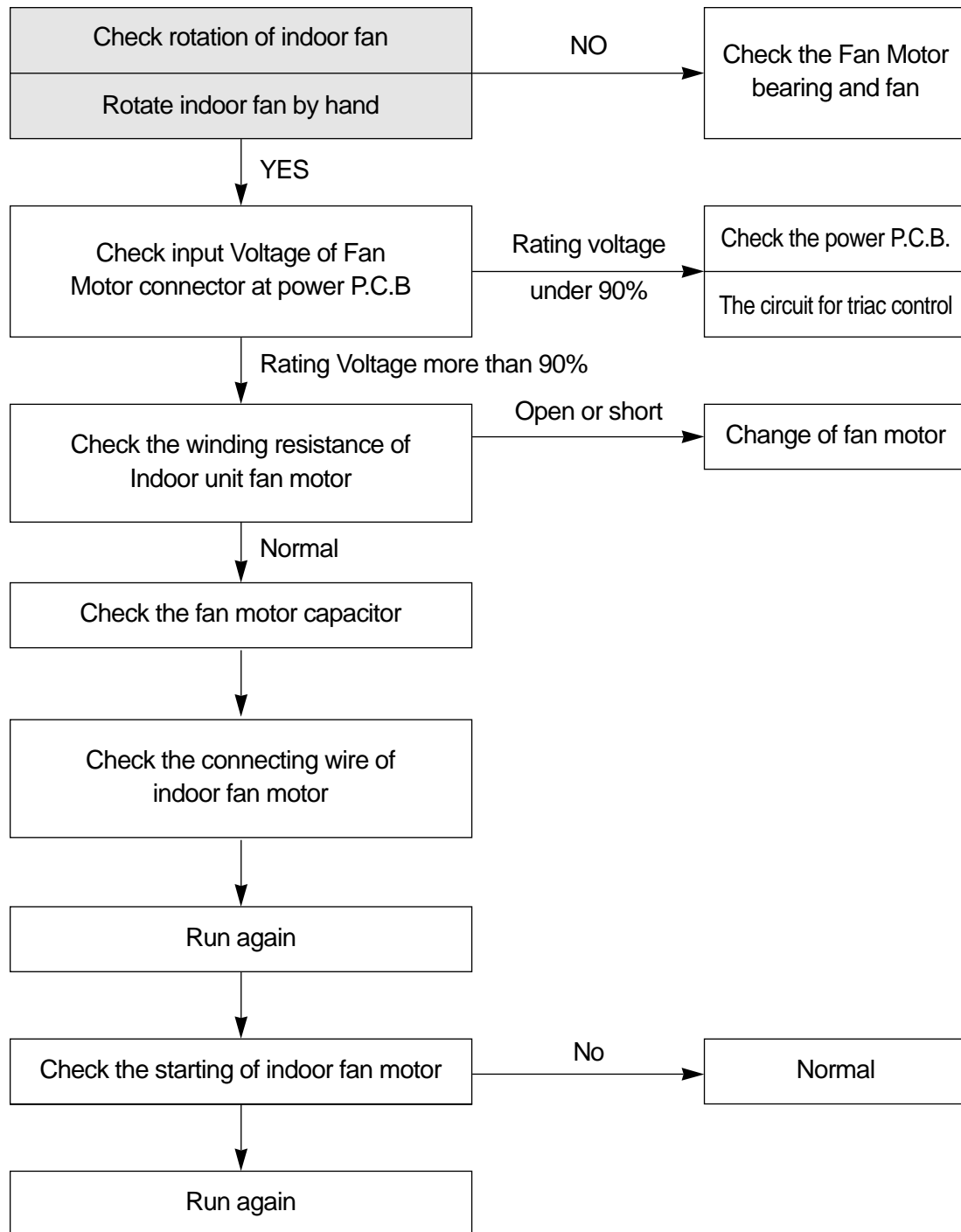
Confirm following statement.

When the unit operate normally, Sometimes the outdoor unit and indoor unit cannot operate.

- ① Check the function select switch. Is it timer mode?
- ② The function select switch locate the sleep mode and is the setting time over?
- ③ Is the setting mode DEHUMIDIFIER mode?
- ④ When the unit is DEHUMIDIFIER mode while in the auto mode, the outdoor unit and indoor unit does not run.



Outdoor Unit Runs but Indoor Fan Does Not Run

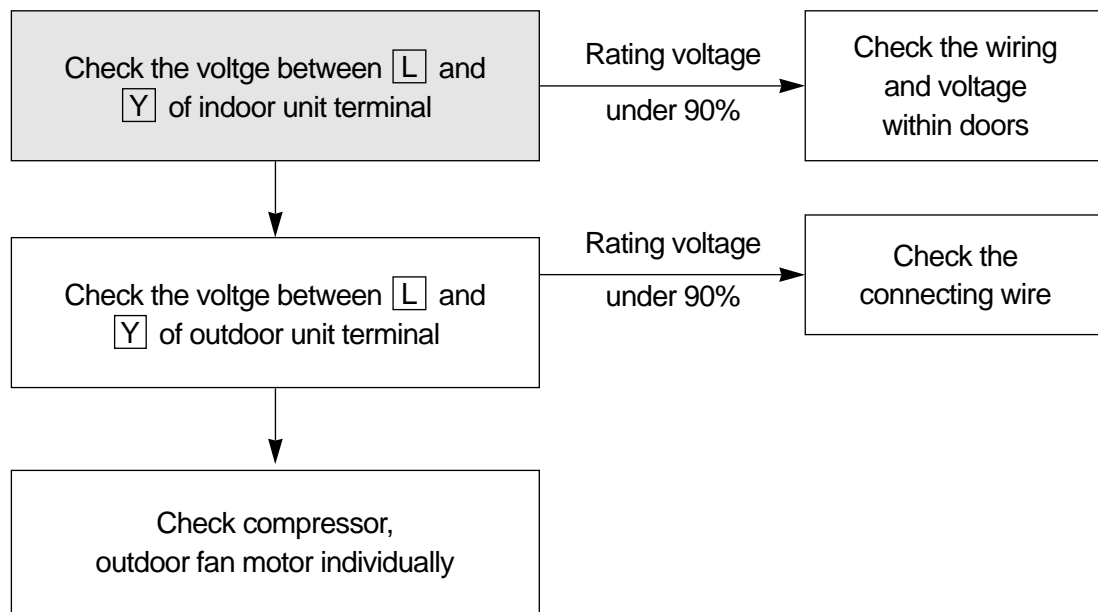


Outdoor Fan and Compressor Do Not Run

Confirm following statement.

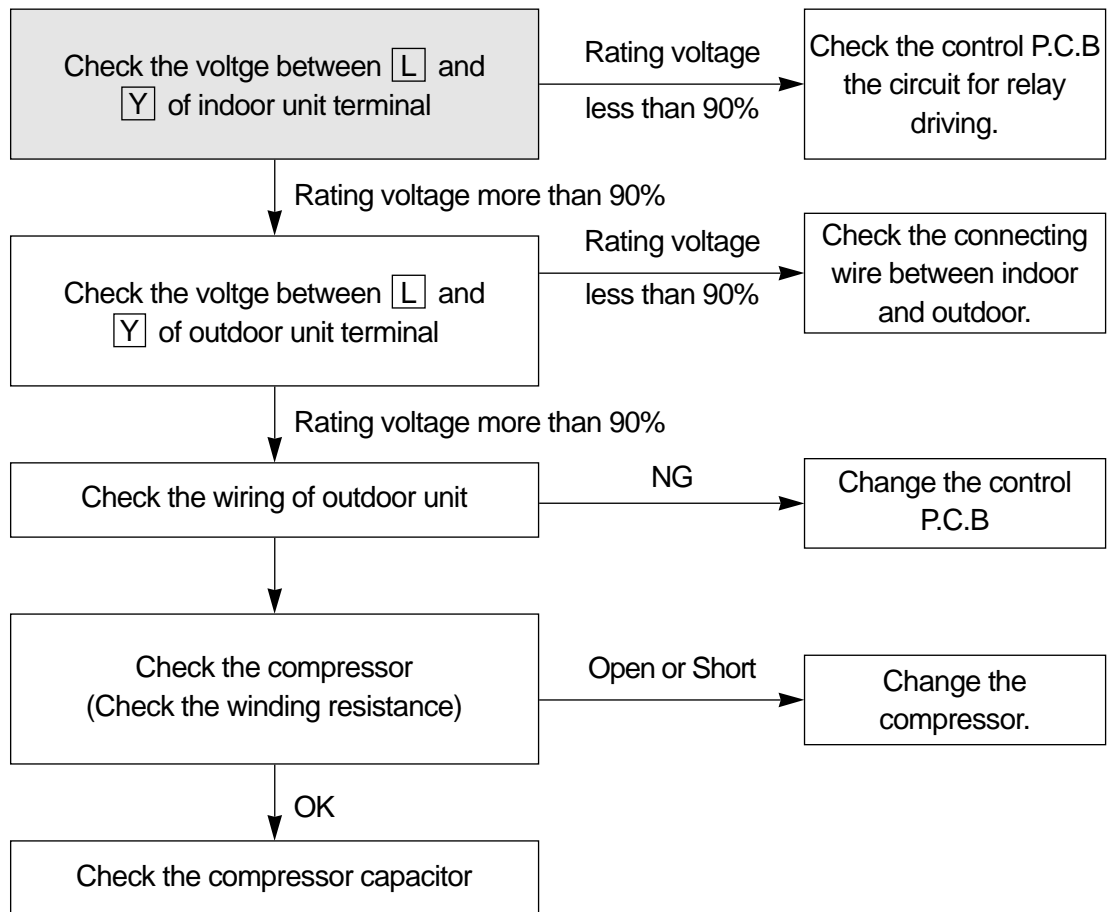
When the unit operate normally, Sometimes the outdoor unit and indoor unit cannot operate.

- ① Is the setting temperature proper?
- ② Is the unit during 3min. Time delay of compressor.
- ③ During frost prevention of Indoor unit.
- ④ During dehumidifier mode.



Only Compressor Does not Run

- Check the following at cooling mode

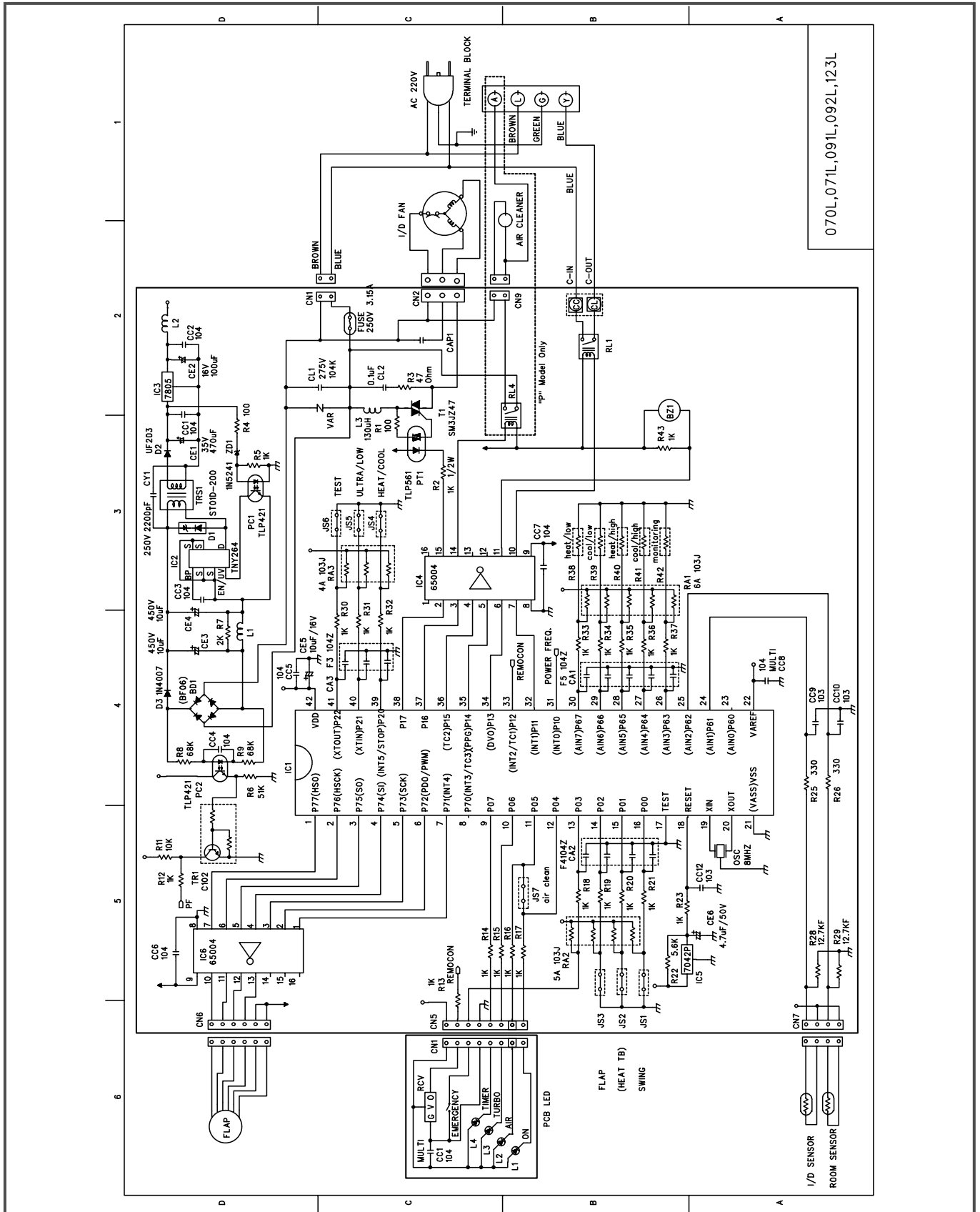




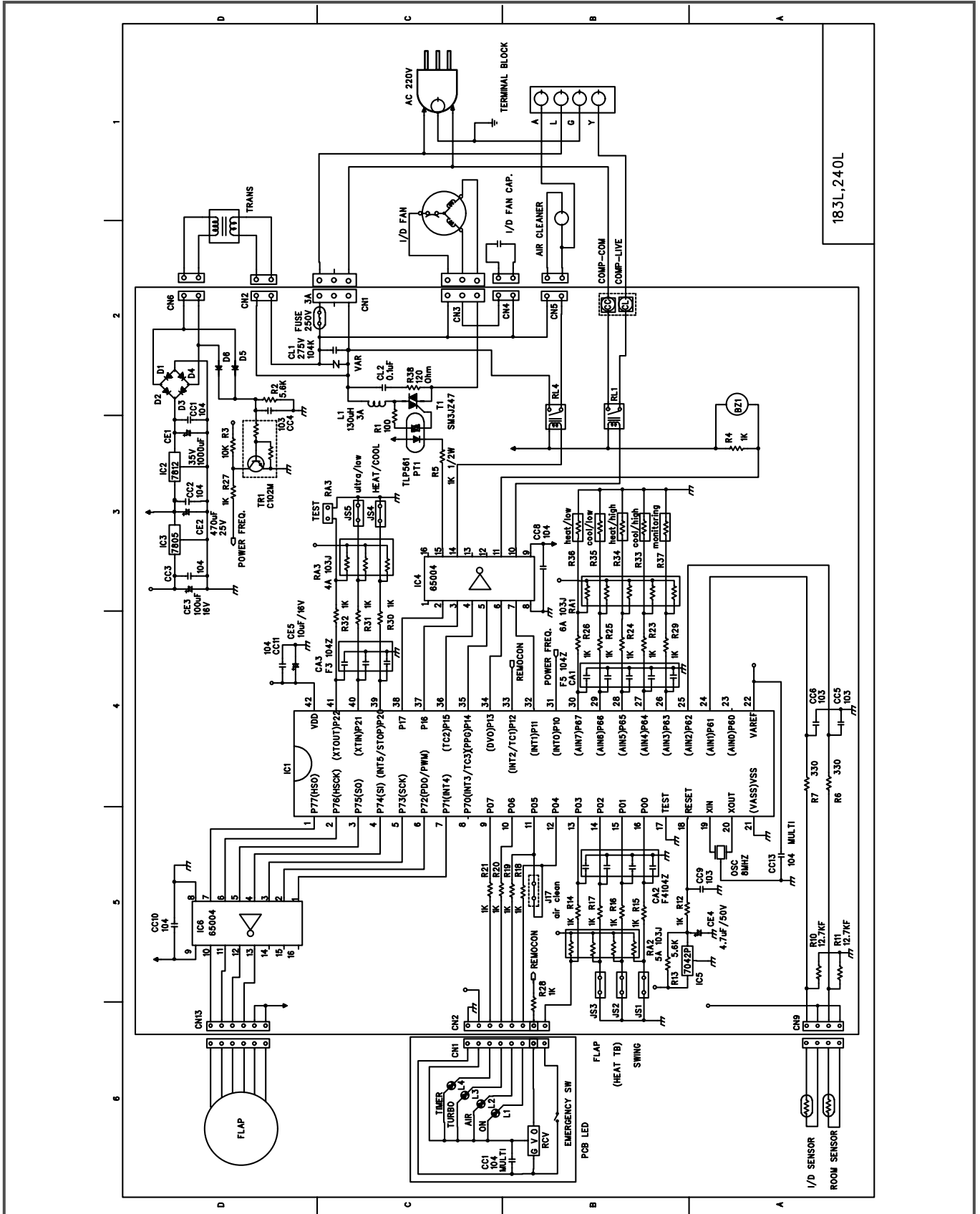
PCB DRIVING DESCRIPTION

1 PCB CIRCUIT DIAGRAM

◆DSB-070L, 071L, 091L, 092L, 123L/DSA-123L



◆DSB-183L, 240L, DSA-183L, 240L, DSA-181L



◆DSB-071L, DSB-092L PART LIST (INDOOR UNIT)

PART NAME	SPEC	QTY	LOC.
FUSE	250V 50T 3.15A	1	FUSE
FUSE CLIP	AFC-520	2	FUSE
VARISTOR	15G561K	1	VAR
WAFER	YW396-05AVD	1	CN2
WAFER	YW396-03AVD	1	CN1
C-CERA	104Z,50VDC	5	CC1,2,5,6,7
C-CERA	103Z,50VDC	5	CC3,4,9,10,,12
C-MULTI	104Z,CR0561B-Z5U	1	CC8
C-ELEC	470uF 35V SD	1	CE1
C-ELEC	10uF 450V SD	2	CE3,CE4
C-ELEC	100uF 16V SD	1	CE2
C-ELEC	10uF 16V SS	1	CE5
C-ELEC	4.7uF 50V SS	1	CE6
C-ARRAY	F3 104Z	1	CA3
C-ARRAY	F4 104Z	1	CA2
C-ARRAY	F5 104Z	1	CA1
RESISTOR	1/4W-12.7KF	2	R28,29
RESISTOR	1/4W-1KJ	21	R5,12,13,14,15,16,17,18,19,20, R21,23,30,31,32,33,34,35,36,37,43
RESISTOR	1/4W-10KJ	1	R11
RESISTOR	1/4W-5.6KJ	1	R22
RESISTOR	1/4W-330J	2	R25,26
RESISTOR	1/4W-100J	2	R1,R4
RESISTOR	1/4W-68KJ	2	R8,R9
RESISTOR	1/4W-51KJ	1	R6
RESISTOR	1/4W-2KJ	1	R7
RESISTOR	1/2W-1KJ	1	R2
RESISTOR	1W-47J	1	R3
RESISTOR	1/4W-3.24KF	1	R41
RESISTOR	1/4W-24.9KF	1	R39
RESISTOR ARRAY	4A 103J	1	RA3
RESISTOR ARRAY	5A 103J	1	RA2
RESISTOR ARRAY	6A 103J	1	RA1
C-LINE ACROSS	275V 104K	2	CL1,CL2
WAFER	SMAW250-06(WHITE)	1	CN6
WAFER	SMAW250-08	1	CN5
WAFER	YMAW250-04	1	CN7
DIODE	1N4007 TAPE	1	D3
DIODE	UF203	1	D2
DIODE ZENOR	1N5241B	1	ZD1
DIODE	ST01D-200	1	D1
C-CERA	2200pF, 250V	1	CY1
CHOKE COIL	1mH, 0.5A	1	L1
FILTER EMI	0.6*10*3TURN	1	L2
BUZZER	BM-20K	1	BZ1
COIL	130uH, 3A	1	L3
IC REGULATOR	KIA7805P	1	IC3
TR	KRC102M	1	TR1
IC RESET	KIA7042P	1	IC5
RELAY	UKH-12S	1	RL1
SW TRANS	264P,1916	1	TRS1
CAPACITOR	1uF,400VAC	1	CAP1
PCB CONTROL	162.5X140X1.6T	1	PCB
IC SWITCHING	TNY264P	1	IC2
DIODE BRIDGE	S1NB80	1	BD1
TRIAC	SM3JZ47	1	T1
PHOTO COUPLER	TLP560J	1	PT1
IC DRIVE	TD62004AP	2	IC4,IC6
RESONATOR	CST8.00MGW	1	OSC
IC MICOM	TMP87C846AN	1	IC1
PHOTO COUPLER	TLP421	2	PC1,PC2

◆DSB-123L PART LIST (INDOOR UNIT)

PART NAME	SPEC	QTY	LOC.
FUSE	250V 50T 3.15A	1	FUSE
FUSE CLIP	AFC-520	2	FUSE
VARISTOR	15G561K	1	VAR
WAFER	YW396-05AVD	1	CN2
WAFER	YW396-03AVD	1	CN1
C-CERA	104Z,50VDC	5	CC1,2,5,6,7
C-CERA	103Z,50VDC	5	CC3,4,9,10,12
C-MULTI	104Z,CR0561B-Z5U	1	CC8
C-ELEC	470uF 35V SD	1	CE1
C-ELEC	10uF 450V SD	2	CE3,CE4
C-ELEC	100uF 16V SD	1	CE2
C-ELEC	10uF 16V SS	1	CE5
C-ELEC	4.7uF 50V SS	1	CE6
C-ARRAY	F3 104Z	1	CA3
C-ARRAY	F4 104Z	1	CA2
C-ARRAY	F5 104Z	1	CA1
RESISTOR	1/4W-12.7KF	2	R28,29
RESISTOR	1/4W-1KJ	22	R5,12,13,14,15,16,17,18,19,20,21, R23,30,31,32,33,34,35,36,37,43,44
RESISTOR	1/4W-10KJ	1	R11
RESISTOR	1/4W-5.6KJ	1	R22
RESISTOR	1/4W-330J	2	R25,26
RESISTOR	1/4W-100J	2	R1,R4
RESISTOR	1/4W-68KJ	2	R8,R9
RESISTOR	1/4W-51KJ	1	R6
RESISTOR	1/4W-2KJ	1	R7
RESISTOR	1/2W-1KJ	1	R2
RESISTOR	1W-47J	1	R3
RESISTOR	1/4W-8.45KF	1	R41
RESISTOR	1/4W-11.1KF	1	R39
RESISTOR ARRAY	4A 103J	1	RA3
RESISTOR ARRAY	5A 103J	1	RA2
RESISTOR ARRAY	6A 103J	1	RA1
C-LINE ACROSS	275V 104K	2	CL1,CL2
WAFER	SMAW250-06(WHITE)	1	CN6
WAFER	SMAW250-08	1	CN5
WAFER	YMAW250-04	1	CN7
DIODE	1N4007 TAPE	1	D3
DIODE	UF203	1	D2
DIODE ZENOR	1N5241B	1	ZD1
DIODE	ST01D-200	1	D1
C-CERA	4700pF, 250V	2	CY1,CY2
CHOKE COIL	1mH, 0.5A	2	L1,L2,L4
BUZZER	BM-20K	1	BZ1
COIL	130uH, 3A	1	L3
IC REGULATOR	KIA7805P	1	IC3
TR	KRC102M	1	TR1
IC RESET	KIA7042P	1	IC5
RELAY	UKH-12S	1	RL1
SW TRANS	264P,1916	1	TRS1
CAPACITOR	1.5uF,400VAC	1	CAP1
PCB CONTROL	165.5X140X1.6T	1	
IC SWITCHING	TNY264P	1	IC2
DIODE BRIDGE	S1NB80	1	BD1
TRIAC	SM3JZ47	1	T1
PHOTO COUPLER	TLP560J	1	PT1
IC DRIVE	TD62004AP	2	IC4,IC6
RESONATOR	CST8.00MGW	1	OSC
IC MICOM	TMP87C846AN	1	IC1
PHOTO COUPLER	TLP421	2	PC1,PC2

◆183L-R/DSA-183L-R/DSB-240L-R/DSA-240L-R PART LIST(INDOOR UNIT)

No	PART CODE	PART NAME	SPEC	Q'TY	UNIT	REMARK
BZ1	3105698200	BUZZER	DP-2520BA	1	EA	
CA1	CN5XD104M-	C-ARRAY	F5 104Z	1	EA	
CA2	CN4XD104M-	C-ARRAY	F4 104Z	1	EA	
CA3	CN3XD104M-	C-ARRAY	F3 104Z	1	EA	
CC	3108803500	PIN	GP881206-2(250)	1	EA	
CC1	CCXE1E104M	C-CERA	104Z 25VDC	1	EA	
CC10	CCXE1E104M	C-CERA	104Z 25VDC	1	EA	
CC11	CCXE1E104M	C-CERA	104Z 25VDC	1	EA	
CC13	CDXE1H104M	C-MULTI	CR501B-Z5U,104Z,50V	1	EA	
CC2	CCXE1E104M	C-CERA	104Z 25VDC	1	EA	
CC3	CCXE1E104M	C-CERA	104Z 25VDC	1	EA	
CC4	CCXE1H103M	C-CERA	103Z 50VDC	1	EA	
CC5	CCXE1H103M	C-CERA	103Z 50VDC	1	EA	
CC6	CCXE1H103M	C-CERA	103Z 50VDC	1	EA	
CC7	CCXE1H103M	C-CERA	103Z 50VDC	1	EA	183LH-R,240LH-R
CC8	CCXE1E104M	C-CERA	104Z 25VDC	1	EA	
CC9	CCXE1H103M	C-CERA	103Z 50VDC	1	EA	
CE1	CEXE1V108C	C-ELEC	1000MF 35V SD	1	EA	
CE2	CEXE1E477C	C-ELEC	470MF 25V SD	1	EA	
CE3	CEXE1C107C	C-ELEC	100MF 16V SD	1	EA	183LH-R,240LH-R
CE4	CEXE1C475A	C-ELEC	4.7MF 50V SS	1	EA	
CE5	CEXE1C106A	C-ELEC	10MF 16V SS	1	EA	
CL	3108803500	PIN	GP881206-2(250)	1	EA	
CL1	CLV-B3104M	C-LINE ACROSS	275V 104K(PILKOR)	1	EA	
CL2	CLV-B3104M	C-LINE ACROSS	275V 104K(PILKOR)	1	EA	
CLIP	3107000600	FUSE CLIP	AFC-520	2	EA	
CN1	3108803900	WAFER	YW396-05AV(RED)	1	EA	
CN10	3108801100	WAFER	5267-02A	1	EA	183LH-R,240LH-R
CN11	3108804000	WAFER	SMAW250-08	1	EA	
CN13	3108802000	WAFER	SMW250-06(WHITE)	1	EA	
CN2	3108803800	WAFER	YFW800-02	1	EA	
CN3	3108802900	WAFER	YW396-05AV	1	EA	
CN4	3108802500	WAFER	YW396-03AV	1	EA	
CN6	3108800320	WAFER	5281-02A	1	EA	
CN7	3108803400	PIN	GP881205-2(187)	1	EA	
CN8	3108803600	WAFER	YFW800-01	1	EA	
CN9	3108804500	WAFER	5267-04A	1	EA	
D1	DZN4004A--	DIODE	KN4004A AUTO 52MM	1	EA	
D2	DZN4004A--	DIODE	KN4004A AUTO 52MM	1	EA	
D3	DZN4004A--	DIODE	KN4004A AUTO 52MM	1	EA	
D4	DZN4004A--	DIODE	KN4004A AUTO 52MM	1	EA	
D5	DZN4004A--	DIODE	KN4004A AUTO 52MM	1	EA	
D6	DZN4004A--	DIODE	KN4004A AUTO 52MM	1	EA	
FUSE	5FVLB3152L	FUSE GLASS TUBE	250V/50T 3.15A	1	EA	
HS1	3105797200	HEAT SHINK	22(H)*23*17	1	EA	
IC1	13GS1H13--	IC MICOM	TMP87C846-1H13	1	EA	
IC2	1KA7812AP-	IC REGULATOR	KIA 7812AP	1	EA	
IC3	1KA7805AP-	IC REGULATOR	KIA 7805AP TO-220IS	1	EA	
IC4	1KD65004AP	IC DRIVER	KID65004AP	1	EA	

No	PART CODE	PART NAME	SPEC	Q'TY	UNIT	REMARK
IC5	1KA7042P--	IC RESET	KIA7042P 5L	1	EA	
IC6	1KD65004AP	IC DRIVER	KID65004AP	1	EA	
L1	52C1374001	COIL	130UH 3A	1	EA	
OSC	4850103610	RESONATOR	CST8.00MTW,8MHZ	1	EA	
PCB	3104398102	PCB CONTROL	160.5*140*1.6T.1(42)	1	EA	
PT1	1TLP560J--	IC PHOTO COUPLER	TLP 560J	1	EA	
R-OPT	3104810000	RESISTOR OPTION	NOTE OPTION TABLE	1	ST	
R1	RD-4K101J-	R CARBON FILM	1/4 100 OHM J	1	EA	
R10	RN-4K1272F	R METAL FILM	1/4 12.7K OHM F	1	EA	
R11	RN-4K1272F	R METAL FILM	1/4 12.7K OHM F	1	EA	
R12	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R13	RD-4K562J-	R CARBON FILM	1/4 5.6K OHM J	1	EA	
R14	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R15	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R16	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R17	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R18	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R19	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R2	RD-4K562J-	R CARBON FILM	1/4 5.6K OHM J	1	EA	
R20	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R21	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R23	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R24	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R25	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R26	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R27	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R28	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R29	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R3	RD-4K103J-	R CARBON FILM	1/4 10K OHM J	1	EA	
R30	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R31	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R32	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R38	RS01F121J-	R M-OXIDE FILM	1W 120 OHM J	1	EA	
R4	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R5	RD-2K102J-	RESISTOR	1/2W - 1K	1	EA	
R6	RD-4K331J-	R CARBON FILM	1/4 330 OHM J	1	EA	
R7	RD-4K331J-	R CARBON FILM	1/4 330 OHM J	1	EA	
R8	RD-4K331J-	R CARBON FILM	1/4 330 OHM J	1	EA	183LH-R,240LH-R
R9	RN-4K1272F	R METAL FILM	1/4 12.7K OHM F	1	EA	183LH-R,240LH-R
RA1	RA8K5103J-	RESISTOR ARRAY	6A 103J	1	EA	
RA2	RA8K4103J-	RESISTOR ARRAY	5A 103J	1	EA	
RA3	RA8K3103J-	RESISTOR ARRAY	4A 103J	1	EA	
RL1	5SC0101220	RELAY	UKH-12SP	1	EA	
RL1	5SC0101128	RELAY	CS11-12SH 1C 1P	1	EA	183L-R/LH-R,240L-R/LH-R
RL2	5SC0101128	SW RELAY	CS11-12SH 1C 1P	1	EA	
RL3	5SC0101128	SW RELAY	CS11-12SH 1C 1P	1	EA	
SCRW	7122401211	SCREW TAPPING	T2S TRS 4*12 MFZN	1	EA	
T1	TSM3JZ47--	TRIAC	SM3JZ47	1	EA	
TEST	3108804300	WAFER	YF254S-02	1	EA	
TR1	TKRC102M--	TR	KRC 102-M (TAPPING)	1	EA	
VAR	D15G561K--	VARISTOR	15G561K/350V	1	EA	
WSHR	3106002900	WASHER	3*6	1	EA	

◆CONTROL PCB ASS'Y (MODEL : 122L/LH,182L/L-R/LH/LH-R)

No	PART CODE	PART NAME	SPEC	Q'TY	UNIT	REMARK
CA1	CN4XD104M-	C-ARRAY	F4 104Z	1	EA	
CA2	CN3XD104M-	C-ARRAY	F3 104Z	1	EA	
CC1	CCXE1E104M	C-CERA	104Z 25VDC	1	EA	
CC10	CCXE1H103M	C-CERA	103Z 50VDC	1	EA	122LH,182LH/LH-R
CC13	CDXE1H104M	C-MULTI	CR501B-Z5U,104Z,50V	1	EA	
CC2	CCXE1E104M	C-CERA	104Z 25VDC	1	EA	
CC3	CCXE1H103M	C-CERA	103Z 50VDC	1	EA	
CC4	CCXE1H103M	C-CERA	103Z 50VDC	1	EA	
CC5	CCXE1H103M	C-CERA	103Z 50VDC	1	EA	
CC6	CCXE1H103M	C-CERA	103Z 50VDC	1	EA	
CC7	CCXE1E104M	C-CERA	104Z 25VDC	1	EA	
CC8	CCXE1H103M	C-CERA	103Z 50VDC	1	EA	
CC9	CCXE1H103M	C-CERA	103Z 50VDC	1	EA	
CE1	CEXE1C475A	C-ELEC	4.7MF 50V SS	1	EA	
CE2	CEXE1C106A	C-ELEC	10MF 16V SS	1	EA	
CN1	3108802400	WAFER	SMAW250-10	1	EA	
CN2	3108804100	WAFER	SMW250-07	1	EA	
CN3	3108804200	WAFER	SMW250-02	1	EA	
CN4	3108802010	WAFER	SMW250-06(RED)	1	EA	182L/L-R/LH/LH-R
CN5	3108802000	WAFER	SMW250-06(WHITE)	1	EA	
CN6	3108802000	WAFER	SMW250-06(WHITE)	1	EA	182L/L-R/LH/LH-R
CN7	3108801100	WAFER	5267-02A	1	EA	182L/L-R/LH/LH-R
CN8	3108804500	WAFER	5267-04A	1	EA	
D1	DZN4148FTB	DIODE	1N4148 AUTO 26MM	1	EA	182L/L-R/LH/LH-R
F1	52F6010100	FILTER EMI	0.6*10*3TUTN	1	EA	182LH/LH-R
IC1	13GS1H13--	IC MICOM	TMP87C846-1H13	1	EA	
IC2	1KA7042P--	IC RESET	KIA7042P 5L	1	EA	
IC3	1KD65004AP	IC DRIVER	KID65004AP	1	EA	
IC4	1KD65004AP	IC DRIVER	KID65004AP	1	EA	
OSC1	4850103610	RESONATOR	CST8.00MTW,8MHZ	1	EA	
PCB	3104397162	PCB CONTROL	110*90.5*1.6T(99)	1	EA	
R-OPT	3104810000	RESISTOR OPTION	NOTE OPTION TABLE	1	ST	
R1	RD-4K103J-	R CARBON FILM	1/4 10K OHM J	1	EA	
R10	RD-4K562J-	R CARBON FILM	1/4 5.6K OHM J	1	EA	
R11	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R12	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R13	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R14	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R16	RD-4K103J-	R CARBON FILM	1/4 10K OHM J	1	EA	
R17	RD-4K103J-	R CARBON FILM	1/4 10K OHM J	1	EA	182L/L-R/LH/LH-R
R18	RN-4K1272F	R METAL FILM	1/4 12.7K OHM F	1	EA	
R19	RD-4K331J-	R CARBON FILM	1/4 330 OHM J	1	EA	

No	PART CODE	PART NAME	SPEC	Q'TY	UNIT	REMARK
R2	RD-4K103J-	R CARBON FILM	1/4 10K OHM J	1	EA	
R20	RN-4K1272F	R METAL FILM	1/4 12.7K OHM F	1	EA	
R21	RD-4K331J-	R CARBON FILM	1/4 330 OHM J	1	EA	
R22	RN-4K1272F	R METAL FILM	1/4 12.7K OHM F	1	EA	122LH,182LH/LH-R
R23	RD-4K331J-	R CARBON FILM	1/4 330 OHM J	1	EA	122LH,182LH/LH-R
R26	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R3	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R32	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R33	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R34	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R4	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R5	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R6	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R7	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R8	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R9	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
RA1	RA8K5103J-	RESISTOR ARRAY	6A 103J	1	EA	
RA2	RA8K3103J-	RESISTOR ARRAY	4A 103J	1	EA	
TEST	3108804300	WAFER	YF254S-02	1	EA	
TR1	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y)	1	EA	182L/L-R/LH/LH-R
TR2	TKRC102M--	TR	KRC 102-M (TAPPING)	1	EA	182L/L-R/LH/LH-R

◆R-OPT. DETAIL LIST

MODEL	R28	R30	MODEL	R41	R39	MODEL	R33	R35
DSB-121L, 122L	2.87 K	28.0 K	DSB-070L, 071L	3.24 K	24.9 K	DSB-183L, 240L	5.76 K	12.4 K
DSB-181L, 182L	3.65 K	22.6 K	DSB-091L, 092L			DSA-183L, 240L	0.332 K	1.78 K
DSA-181L, 182L	1.47 K	6.34 K						

◆POWER PCB ASS`Y (MODEL : 122L/LH,182L/L-R/LH/LH-R)

No	PART CODE	PART NAME	SPEC	Q'TY	UNIT	REMARK
BZ1	3105698200	BUZZER	DP-2520BA	1	EA	
C1	CLV-B3104M	C-LINE ACROSS	275V 104K(PILKOR)	1	EA	
C2	CLV-B3104M	C-LINE ACROSS	275V 104K(PILKOR)	1	EA	
CC	3108803500	PIN	GP881206-2(250)	1	EA	
CC1	CCXE1E104M	C-CERA	104Z 25VDC	1	EA	
CC2	CCXE1E104M	C-CERA	104Z 25VDC	1	EA	
CC3	CCXE1E104M	C-CERA	104Z 25VDC	1	EA	
CC4	CCXE1H103M	C-CERA	103Z 50VDC	1	EA	
CE1	CEXE1V108C	C-ELEC	1000MF 35V SD	1	EA	
CE2	CEXE1E477C	C-ELEC	470MF 25V SD	1	EA	
CE3	CEXE1C107C	C-ELEC	100MF 16V SD	1	EA	
CL	3108803500	PIN	GP881206-2(250)	1	EA	
CLIP	3107000600	FUSE CLIP	AFC-520	2	EA	
CN1	3108803900	WAFER	YW396-05AV(RED)	1	EA	
CN2	3108803800	WAFER	YFW800-02	1	EA	
CN3	3108802900	WAFER	YW396-05AV	1	EA	
CN4	3108802500	WAFER	YW396-03AV	1	EA	
CN5	3108802800	WAFER	YW396-04AV(BLUE)	1	EA	082H,102H,122H
CN6	3108802100	WAFER	SMW250-10	1	EA	
CN7	3108800320	WAFER	5281-02A	1	EA	
CN8	3108803400	PIN	GP881205-2(187)	1	EA	122LH,182LH/LH-R
CN9	3108803600	WAFER	YFW800-01	1	EA	122LH,182LH/LH-R
D1	DZN4004A--	DIODE	KN4004A AUTO 52MM	1	EA	
D2	DZN4004A--	DIODE	KN4004A AUTO 52MM	1	EA	
D3	DZN4004A--	DIODE	KN4004A AUTO 52MM	1	EA	
D4	DZN4004A--	DIODE	KN4004A AUTO 52MM	1	EA	
D5	DZN4004A--	DIODE	KN4004A AUTO 52MM	1	EA	
D6	DZN4004A--	DIODE	KN4004A AUTO 52MM	1	EA	
FUSE	5FVLB3152L	FUSE GLASS TUBE	250V/50T 3.15A	1	EA	
HS1	3105797200	HEAT SHINK	22(H)*23*17	1	EA	
IC1	1KA7812AP-	IC REGULATOR	KIA 7812AP	1	EA	
IC2	1KA7805AP-	IC REGULATOR	KIA 7805AP TO-220IS	1	EA	
L1	52C1374001	COIL	130UH 3A	1	EA	
PCB	3104396142	PCB POWER	130*81*1.6T(84)	1	EA	
PT1	1TLP560J--	IC PHOTO COUPLER	TLP 560J	1	EA	
R1	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R2	RD-4K103J-	R CARBON FILM	1/4 10K OHM J	1	EA	
R3	RD-4K562J-	R CARBON FILM	1/4 5.6K OHM J	1	EA	
R4	RD-2K102J-	RESISTOR	1/2W - 1K	1	EA	
R5	RD-4K101J-	R CARBON FILM	1/4 100 OHM J	1	EA	
R6	RD-4K102J-	R CARBON FILM	1/4 1K OHM J	1	EA	
R7	RS01F121J-	R M-OXIDE FILM	1W 120 OHM J	1	EA	
RL1	5SC0101220	RELAY	UKH-12SP	1	EA	122L/LH,082M/H
RL1	5SC0101220	SW RELAY	CS11-12SH 1C 1P	1	EA	
RL2	5SC0101128	SW RELAY	CS11-12SH 1C 1P	1	EA	122LH,182LH/LH-R
RL3	5SC0101128	SW RELAY	CS11-12SH 1C 1P	1	EA	122LH,182LH/LH-R
RL4	5SC0101128	SW RELAY	CS11-12SH 1C 1P	1	EA	082H,102H,122H
SCRW	7122401211	SCREW TAPPING	T2S TRS 4*12 MFZN	1	EA	
T1	TSM3JZ47--	TRIAC	SM3JZ47	1	EA	
TR1	TKRC102M--	TR	KRC 102-M (TAPPING)	1	EA	
VAR	D15G561K--	VARISTOR	15G561K/350V	1	EA	
WSHR	3106002900	WASHER	3*6	1	EA	

◆LED PCB ASS`Y (MODEL : 070L/LH, 071L/LH, 091L/LH,092L/LH)

No	PART CODE	PART NAME	SPEC	Q'TY	UNIT	REMARK
CC1	CDXE1H104M	C-MULTI	CR501B-Z5U,104Z,50V	1	EA	
CN1	3108804800	WAFER	SMAW250-08	1	EA	
HOLD	3103002700	HOLDER LED	ABS	1	EA	
L1	DDLS05031D	LED	DLSO-5031D(RED)	1	EA	
L2	DDLG05031D	LED	DLG-5031D(GRN)	1	EA	
L3	DDLS05031D	LED	DLSO-5031D(RED)	1	EA	
L4	DDLY05031D	LED	DLY-5031D(YLW)	1	EA	
PCB	3104398201	PCB LED	110*31*1.6T.10(288)	1	EA	
RCV	1TSP1838YA	RECEIVER MODULE	TSOP-1838YA1(HOLDER)	1	EA	
SW1	5S40202000	S/W PUSH	JPS2281	1	EA	

◆LED PCB ASS`Y (MODEL : 123L, 183L-R/LH-R, 240L-R/LH-R)

No	PART CODE	PART NAME	SPEC	Q'TY	UNIT	REMARK
CC1	CDXE1H104M	C-MULTI	CR501B-Z5U,104Z,50V	1	EA	
CN1	3108804800	WAFER	SMAW250-08	1	EA	
HOLD	3103004100	HOLDER LED		1	EA	
L1	DDLS05031D	LED	DLSO-5031D(RED)	1	EA	
L2	DDLG05031D	LED	DLG-5031D(GRN)	1	EA	
L3	DDLS05031D	LED	DLSO-5031D(RED)	1	EA	
L4	DDLY05031D	LED	DLY-5031D(YLW)	1	EA	
PCB	3104398202	PCB LED	150*24.5*1.6T(240)	1	EA	
RCV	1TSP1838YA	RECEIVER MODULE	TSOP-1838YA1(HOLDER)	1	EA	
SW1	5S40202000	S/W PUSH	JPS2281	1	EA	

◆LED PCB ASS`Y (MODEL : 122L/LH,121L)

No	PART CODE	PART NAME	SPEC	Q'TY	UNIT	REMARK
CC1	CXCH1H103M	C CERA	103J/50 20%	1	EA	
CN1	3108804600	WAFER	SMAW250-07	1	EA	
HOLD	3103001900	LED HOLDER	ABS(VO) T2.0	1	EA	
L1	DDSR302D--	LED	DLSR-302D(RED)	1	EA	
L2	DDLG302D--	LED	DLG-302D	1	EA	
L3	DDSR302D--	LED	DLSR-302D(RED)	1	EA	
L4	DDLY302D--	LED	DLY-302D	1	EA	
PCB	3104397402	LED PCB	72*50*1.6T(247)	1	EA	
RCV	1TSP1838YA	RECEIVER MODULE	TSOP-1838YA1(HOLDER)	1	EA	

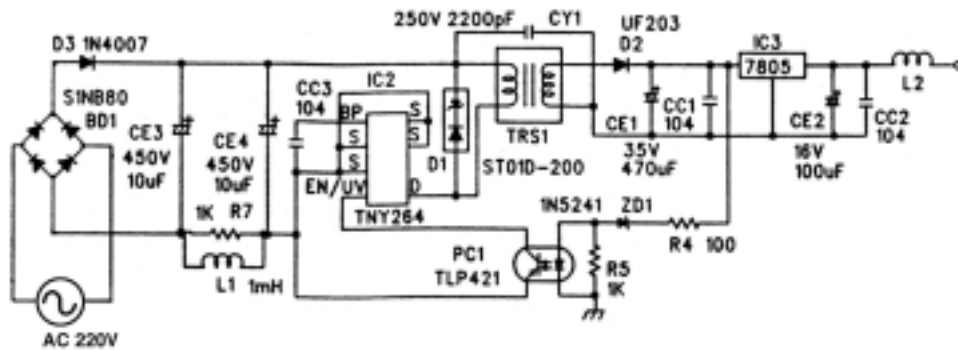
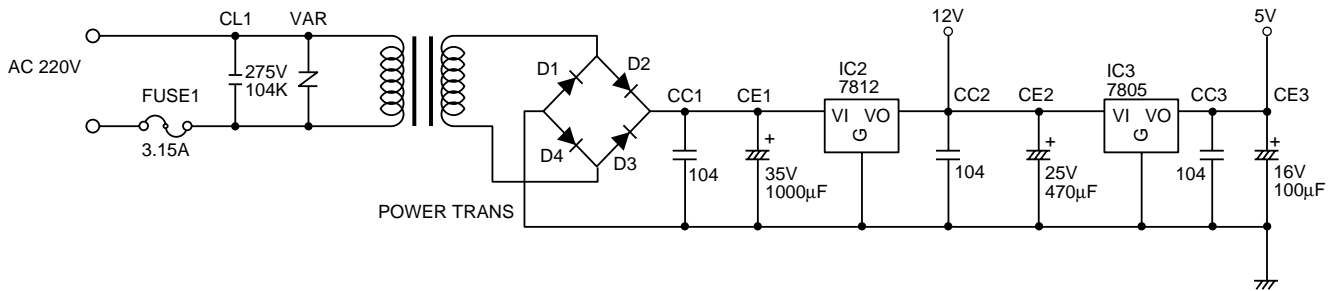
◆LED PCB ASS`Y (MODEL : 182L/L-R/LH/LH-R,151L/LH,181L)

No	PART CODE	PART NAME	SPEC	Q'TY	UNIT	REMARK
CC1	CXCH1H103M	C CERA	103J/50 20%	1	EA	
CN1	3108804600	WAFER	SMAW250-07	1	EA	
HOLD	3103001100	LED HOLDER	ABS (BLK)	1	EA	
L1	DDSR302D--	LED	DLSR-302D(RED)	1	EA	
L2	DDLG302D--	LED	DLG-302D	1	EA	
L3	DDSR302D--	LED	DLSR-302D(RED)	1	EA	
L4	DDLY302D--	LED	DLY-302D	1	EA	
PCB	3104395412	LED PCB	67.5*40*1.6T(350)	1	EA	
RCV	1TSP1838YA	RECEIVER MODULE	TSOP-1838YA1(HOLDER)	1	EA	

◆SWITCH PCB ASS`Y (MODEL : 182L/L-R/LH/LH-R, 181L)

No	PART CODE	PART NAME	SPEC	Q'TY	UNIT	REMARK
CN1	3108804700	WAFER	SMAW250-02	1	EA	
PCB	3104395311	S/W PCB	36*29.5*1.6T(891)	1	EA	
SW1	5S30101330	SWITCH SLIDE	KSA-2340B	1	EA	

Power Supply(1)



DESCRIPTION

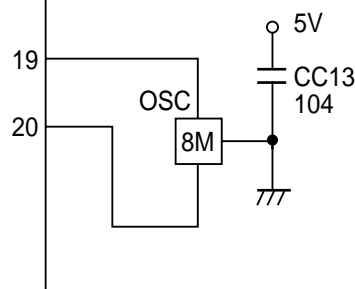
DC Power Supply in circuit needs +12V and +5V. +12V is used for Compressor Driving Relay, Triac Driving Photo Triac, Buzzer Driving Swing, Sweep Motor. AC voltage of secondary Power Transformer is rectified by Bridge Diode, and it is filtering by Main Condensor CE1.

Filtered DC voltage is about +18V, is regulated +12V DC by Regulator IC7812.

And it is regulated +5V DC by Regulator IC7805.

VAR is surge filter and CC1, CC2, CC3 is Noise filter.

Oscillator(2)



DESCRIPTION

Oscillatory Frequency drive Micom, it is made up 8MHz resonator oscillatory Frequency.
Oscillatory wave is as following Fig 2-1.

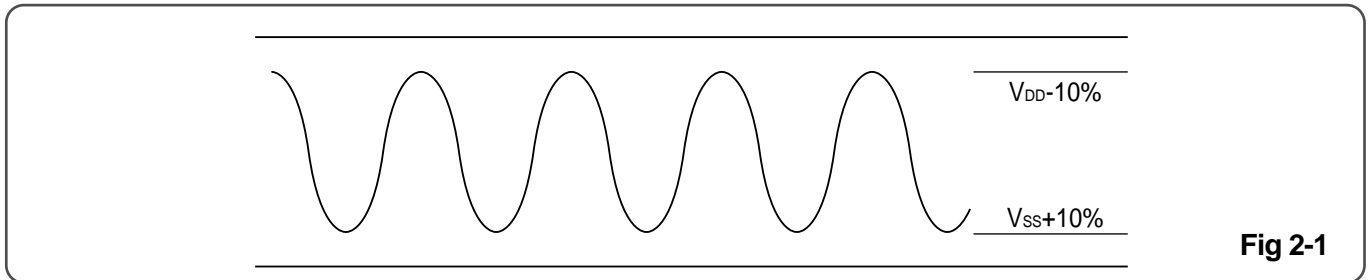
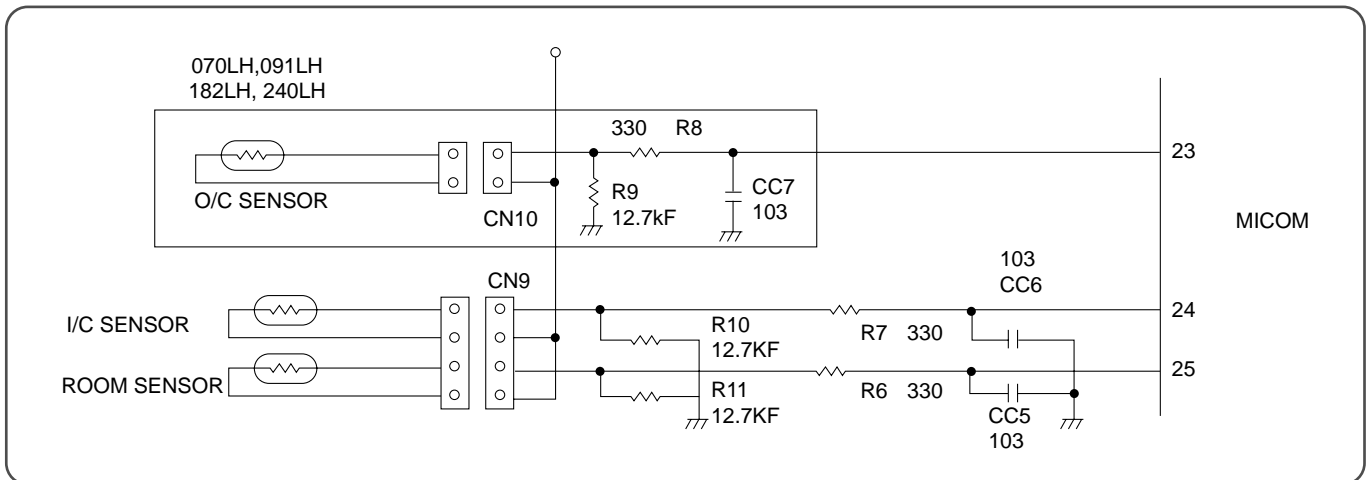


Fig 2-1

Sensor(3)

Room temperature and Evaporator temperature Sensor Input



DESCRIPTION

Number 24, 25 of Micom is Terminal of A/D convertor Input.

Room temperature and Evaporator temperature is sensing by change of Thermister Resistance, Micom is put in 5V by ratio between R10 (12.7KΩ) and R11 (12.7KΩ).

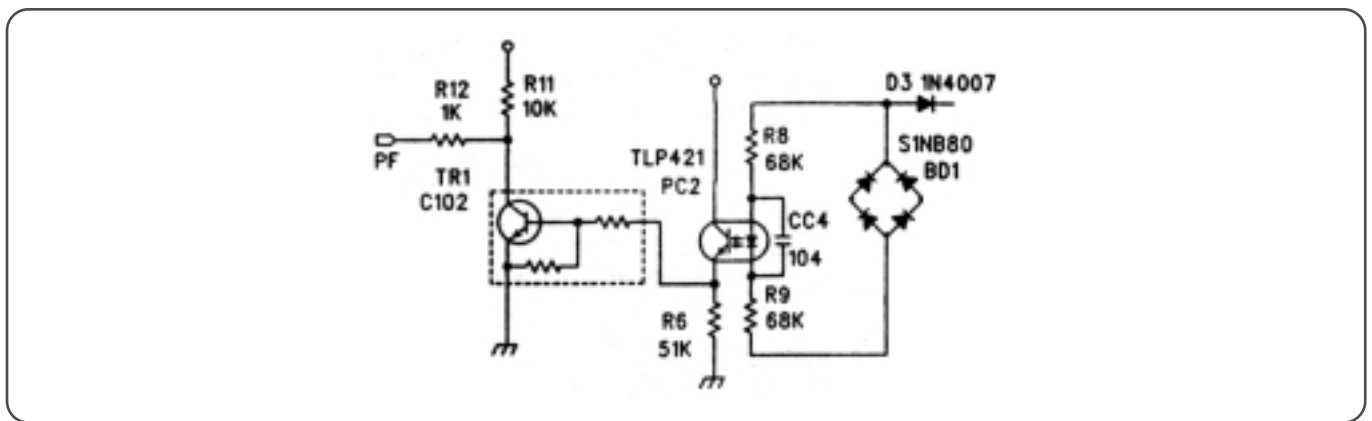
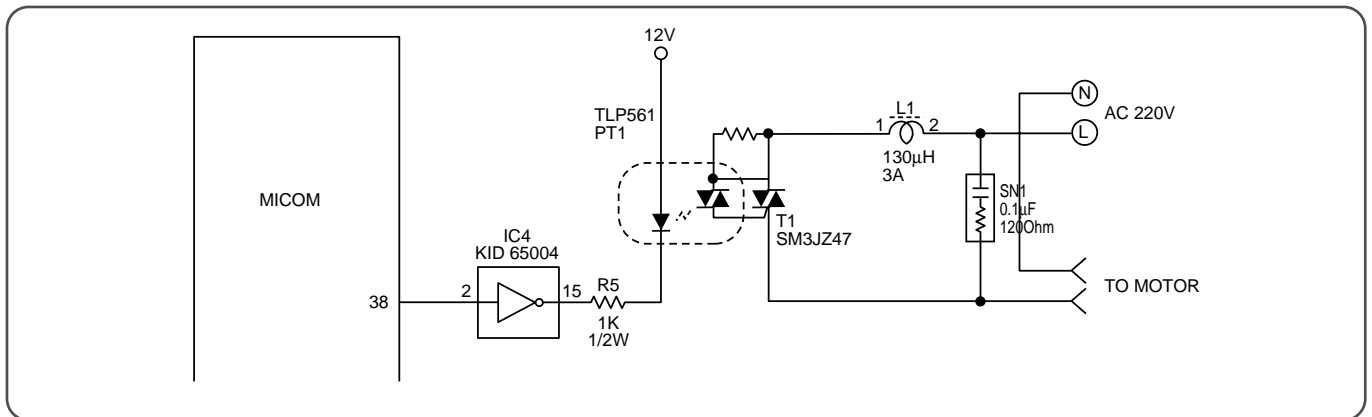
Relation between temperature and voltage is following Table 3-1.

CC5, 6 is Noise filter.

Temperature (°C)	Voltage (V)	
	No. 1	No. 3
-5	1.127	1.127
0	1.378	1.378
5	1.650	1.650
10	1.936	1.936
15	2.228	2.228

Table 3-1

Triac Driving(4)



DESCRIPTION

Number 38 Terminal of Micom is put out Pulse Output, by way of Buffer it is driving Photo Triac is supplied Trigger Signal.

Trigger Test of Triac is detected Zero Cross Part of AC input and it is triggered from Zero Cross part to Time delay part according to Fan Speed. (Ref. Fig 4-1) SN1 is Snubber.

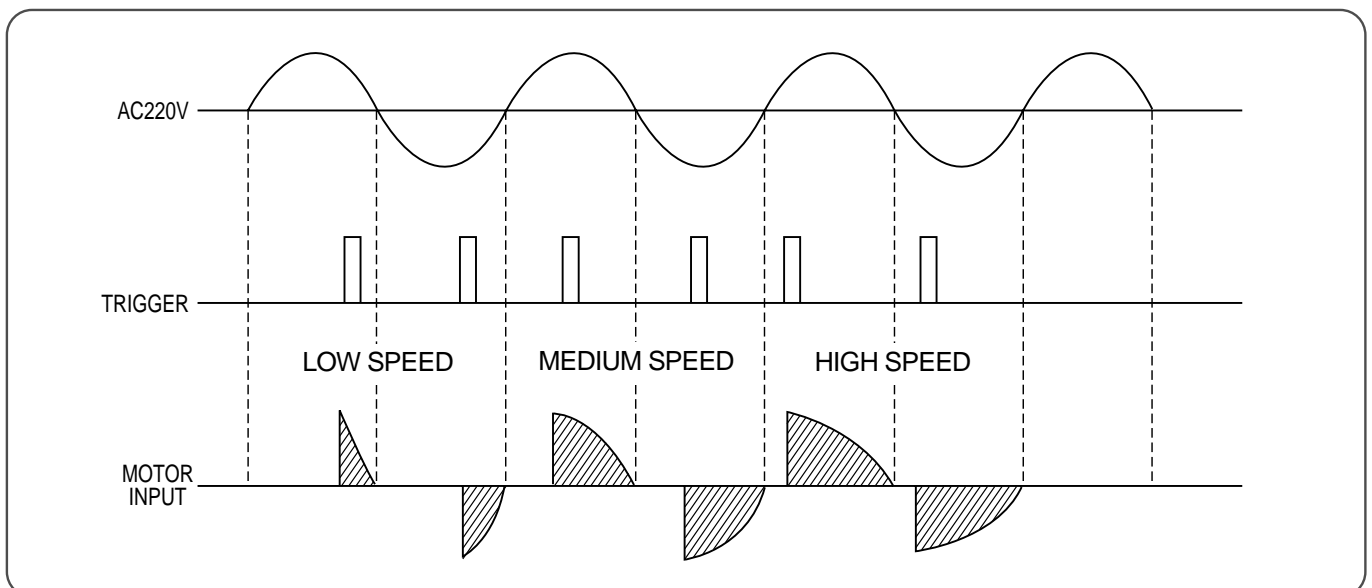


Fig 4-1

Remote Controller(5)

DESCRIPTION

Signal from Remote Controller put in only Control Data Signal at Micom Terminal of Number 33, which is gotten from Carrier (38KHz) from Receive Module. Signal Wave repeat third as following Fig 5-1. But in Secondary Wave Custom Code is Reversed Face.

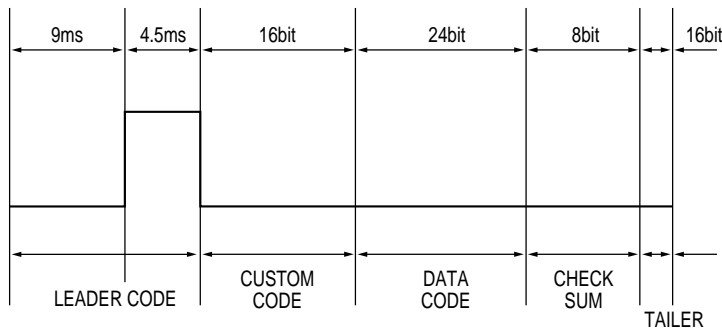


Fig 5-1

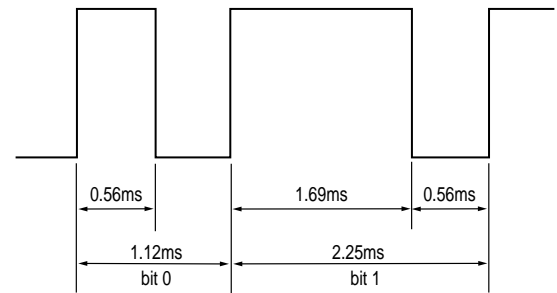
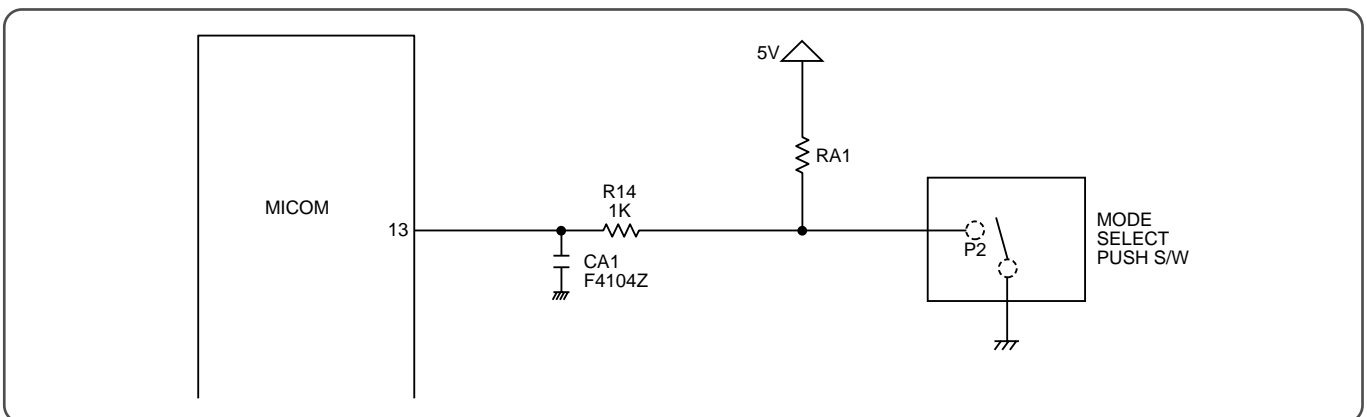


Fig 5-2
BIT STRUCTURE

Selecting Mode(6)

(SELECT S/W INPUT, OUTPUT)



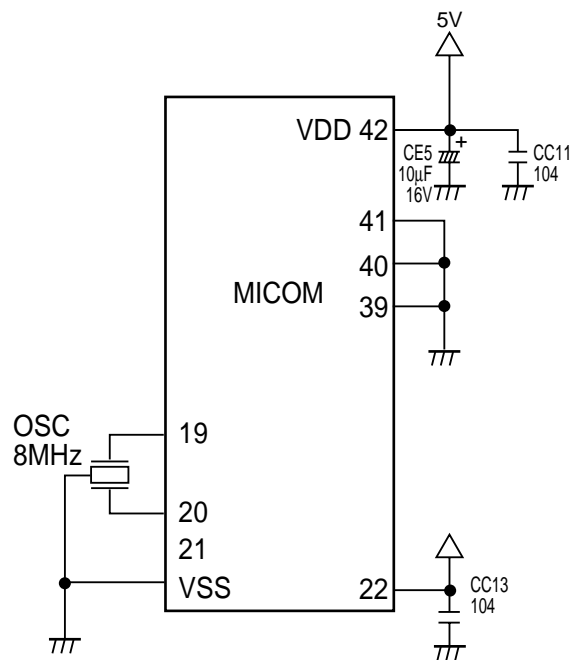
DESCRIPTION

There are Mode according to SW position as following Table 6-1. According as port of fixed Micom is Low, the unit is operating as following Table 6-1.

POSITION	MODE
OPEN	REMOCON
GND	EMERGENCY

Table 6-1

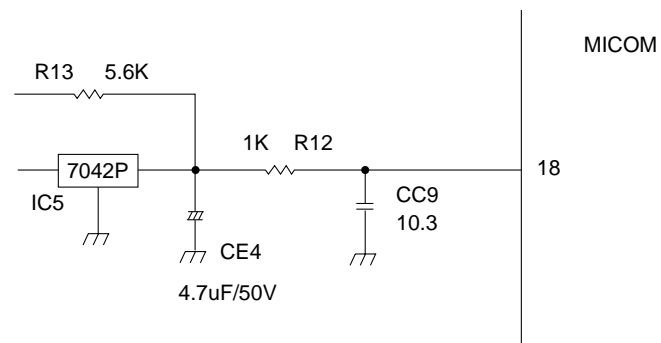
Micom Power Supply(7)



DESCRIPTION

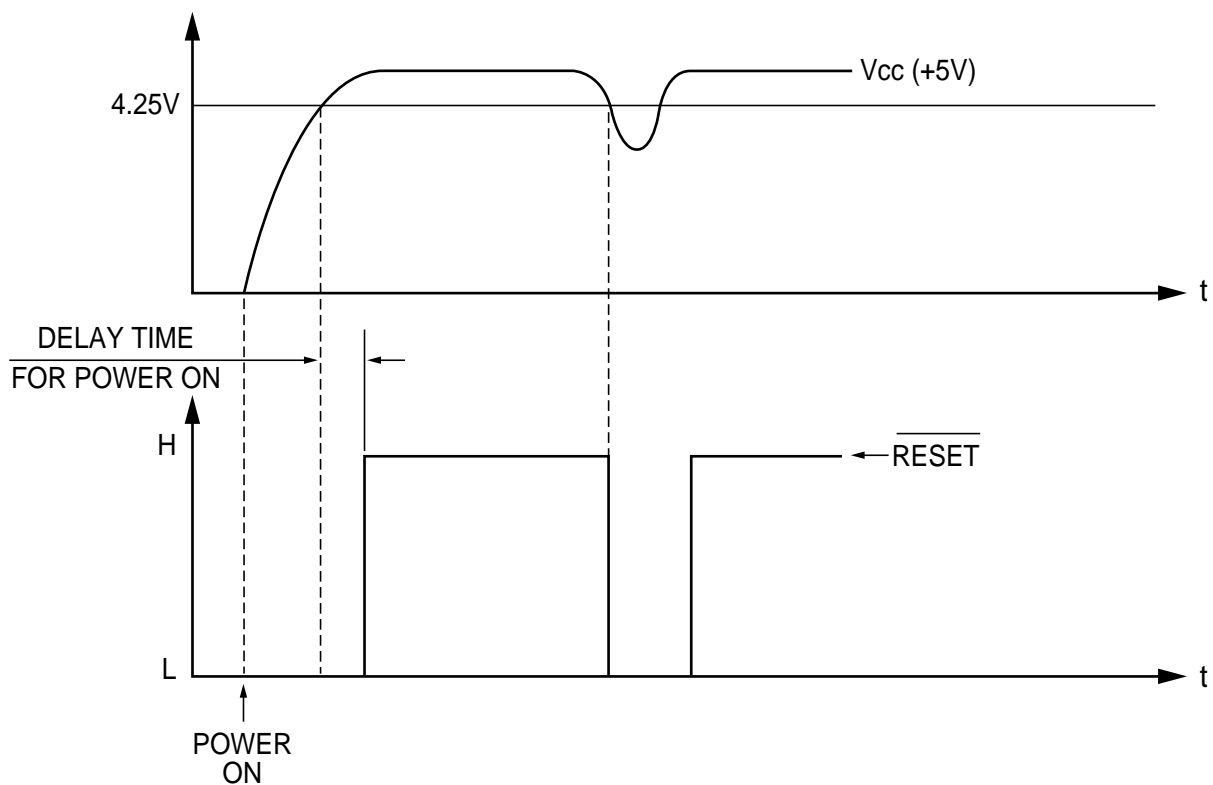
MICOM Power is supplied 5V at Number 42 using VDD, Number 19, 20 Vsing Oscillator, CC13 is noise filter.

Reset(8)

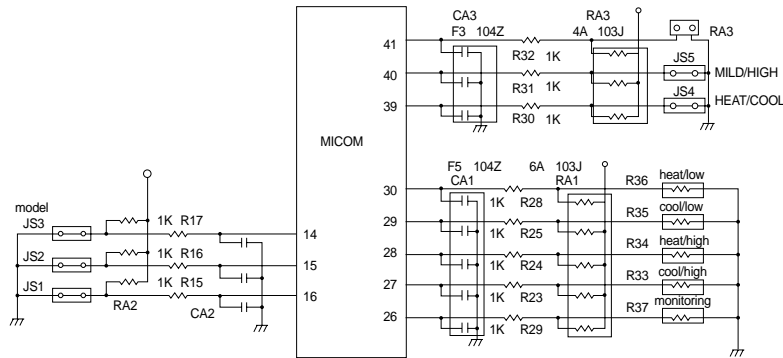


DESCRIPTION

Voltage less than about 0.8V put in Micom Terminal of Number 18 and then Micom reset. Reset IC detect Power ON and Voltage less than 4.25V, and then send Reset Signal.



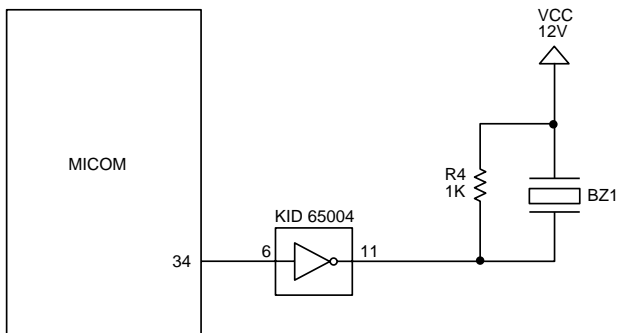
Function Selecting(9)



DESCRIPTION

- * When power source is put at first, Function selection input is recognized.
And when the unit is running the microcomputer ignore variation of function selection input.

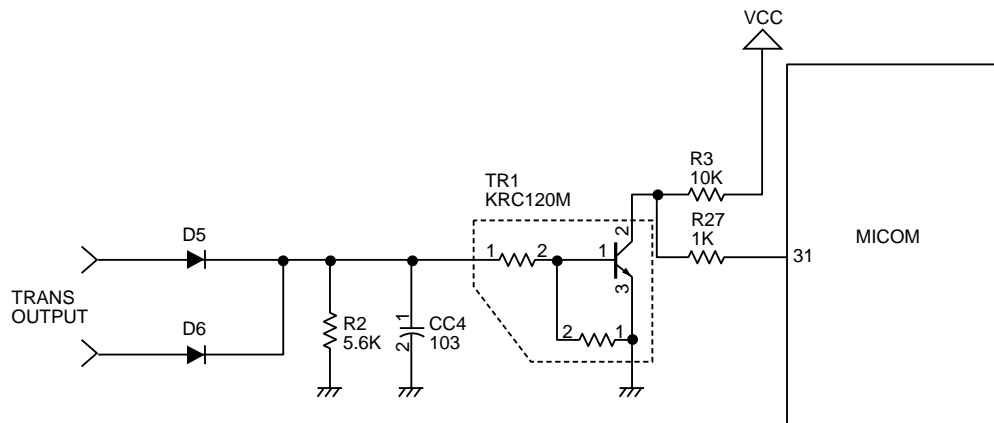
Buzzer Driving(10)



DESCRIPTION

Micom 34 Terminal put out Buzzer Driving Pulse, its output is driving Buzzer through Buffer. Oscillatory Frequency of buzzer is selected by internal Micom. This unit is setting at 4KHz.

Zero Crossing Detect(11)



DESCRIPTION

It detect Zero Cross part of Trans output voltage, Transistor TR1 is used to put in the Micom.
 Detail Driving is as following Fig 11-1.
 R19 is Resistance to limit current.

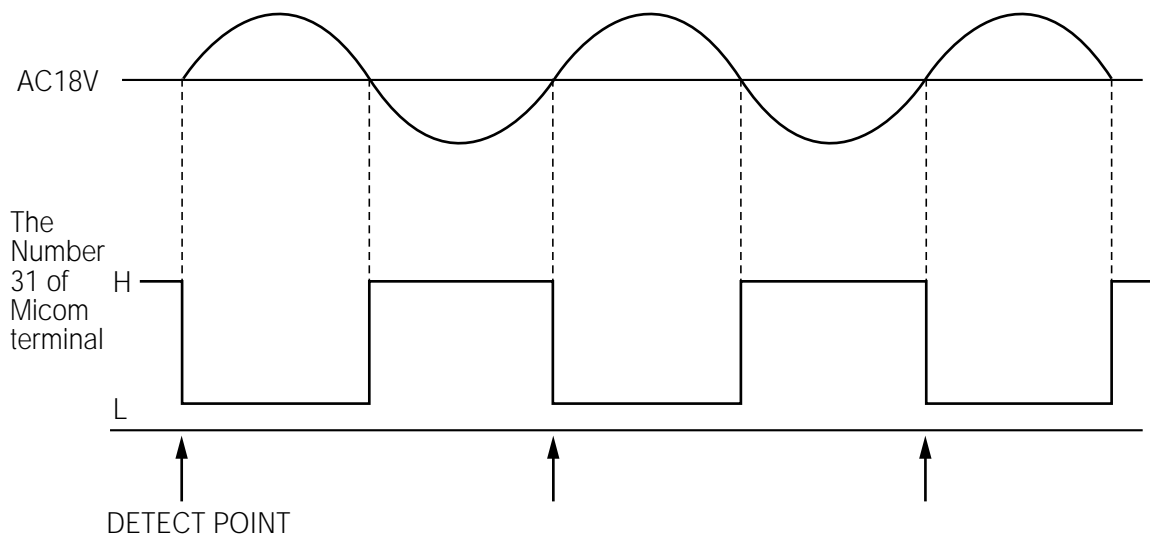
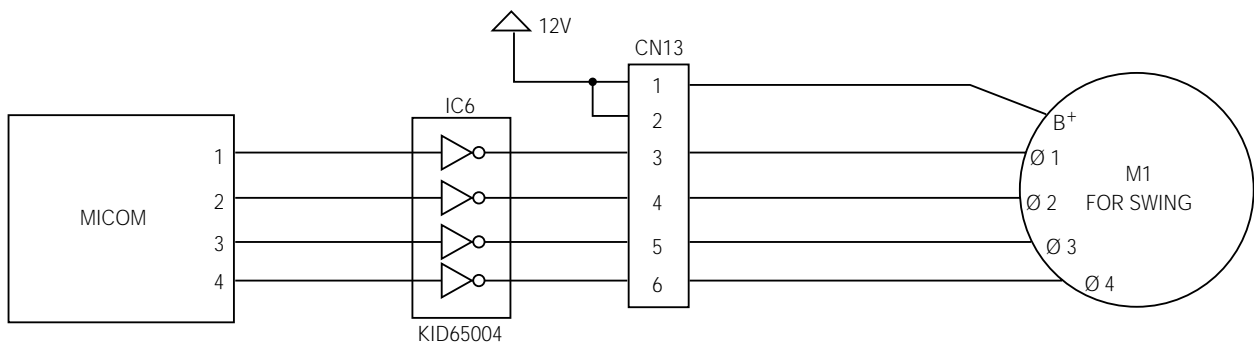


Fig 11-1

Stepping Motor Driving(12)



DESCRIPTION

There are one Stepping Motor for Flap (up and down) and it is used 4 face Drive Method. It is driving as following Fig 12-1. (Ring Count Method of 8 Status)

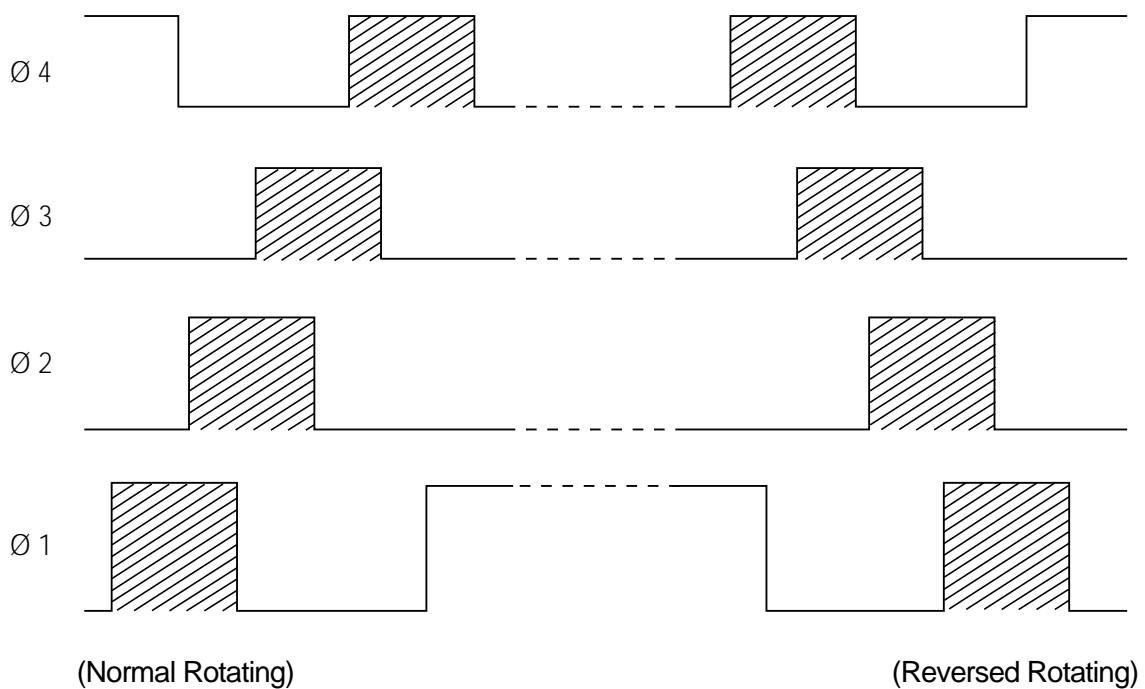
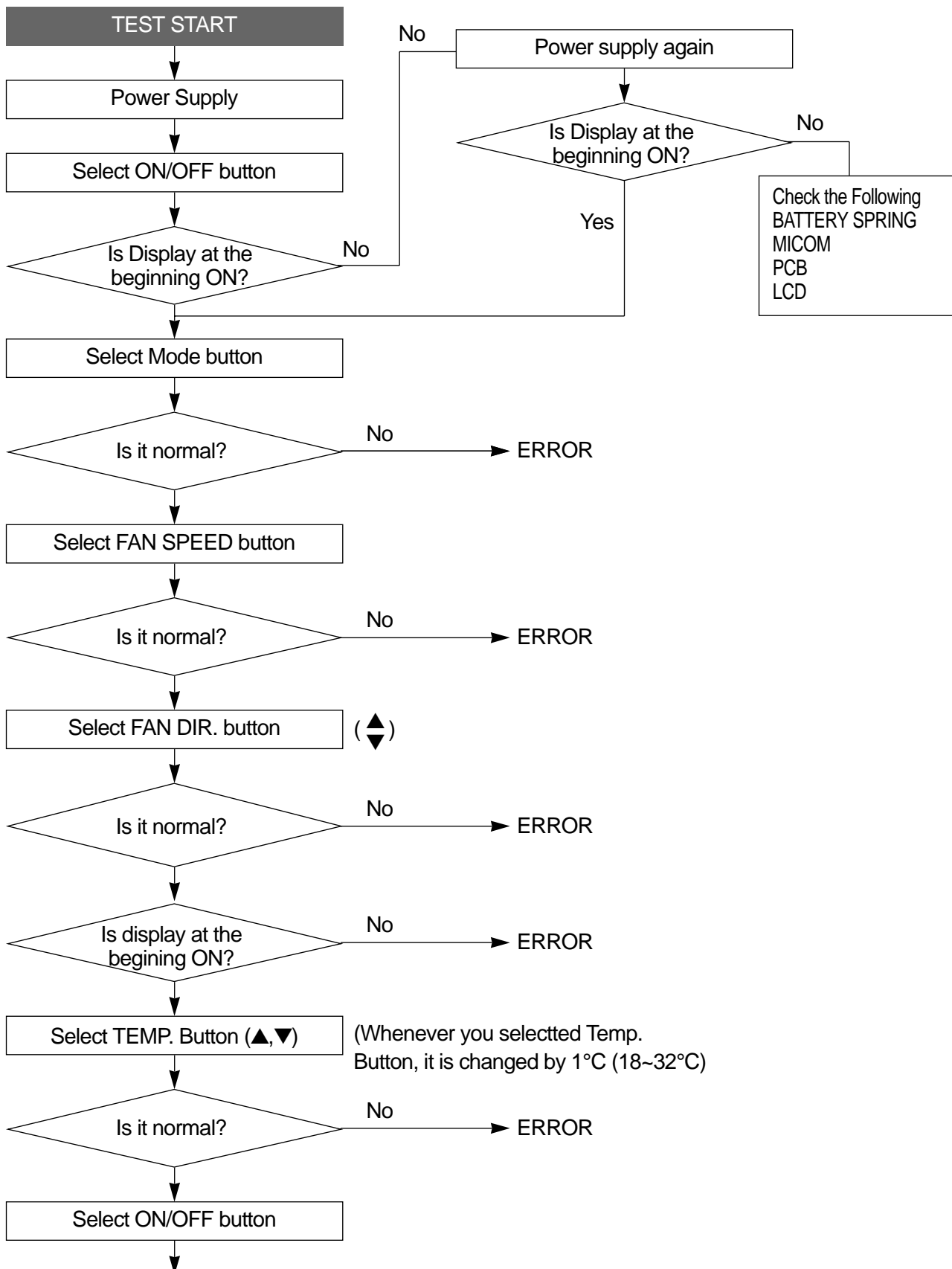
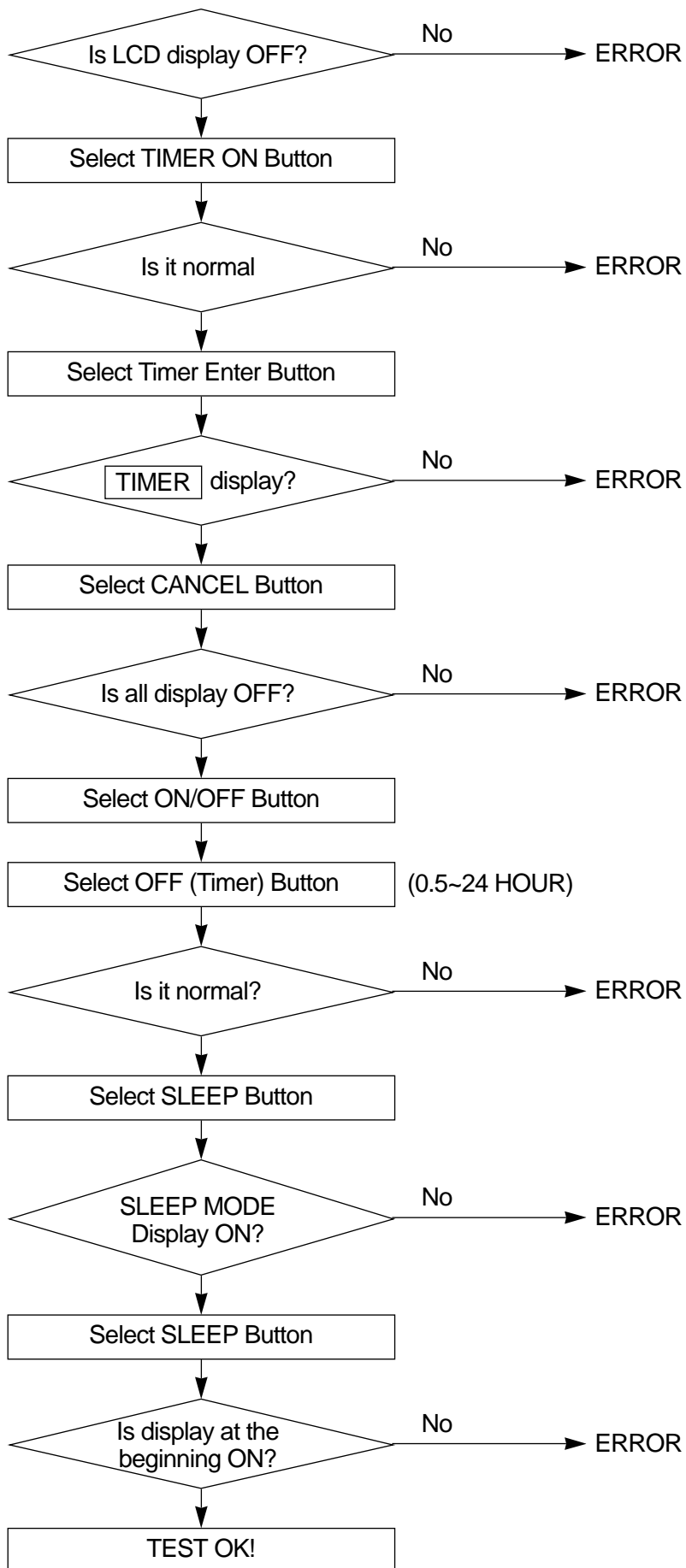


Fig 12-1

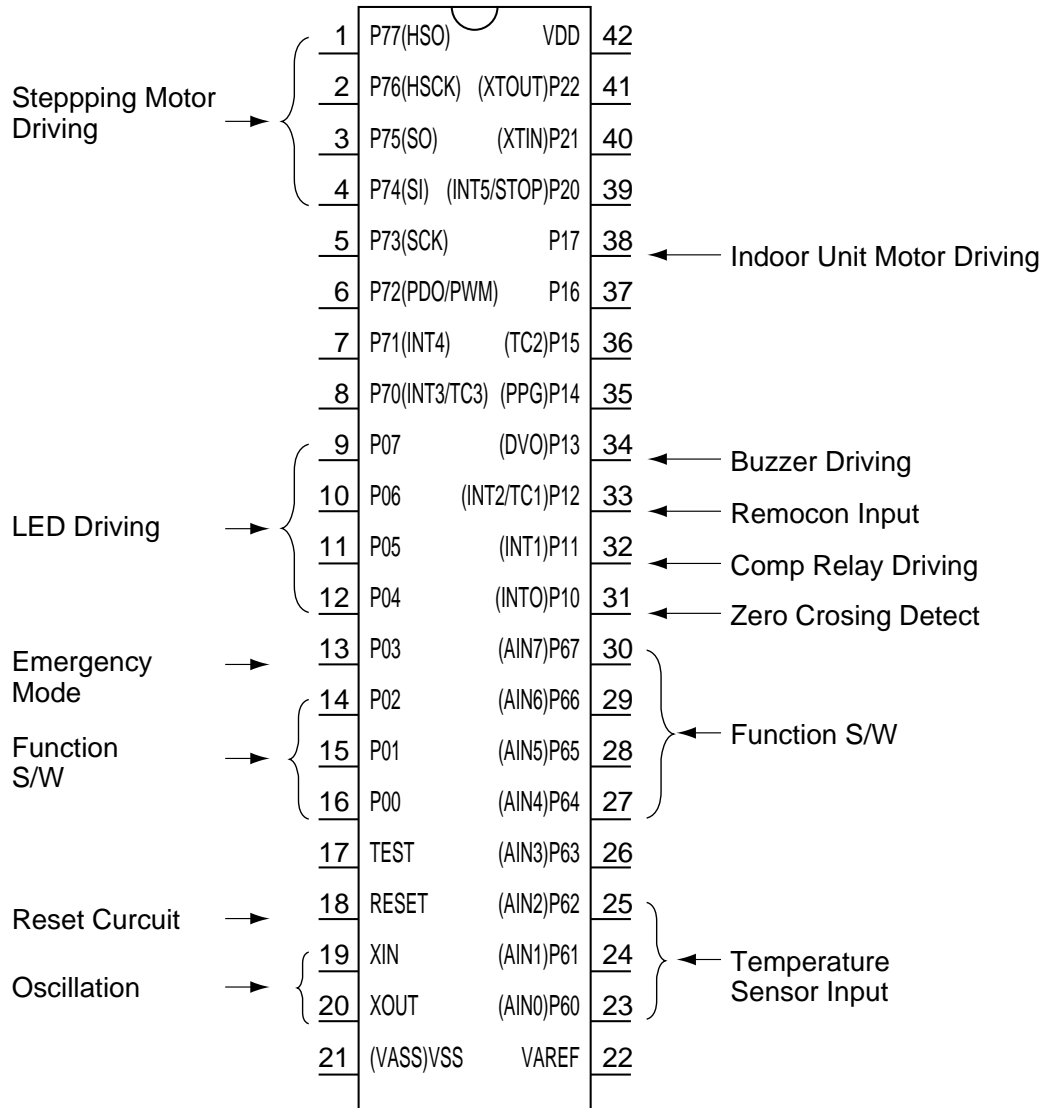
2 REMOTE CONTROLLER ASSMBLY FUNCTIONAL TEST METHOD



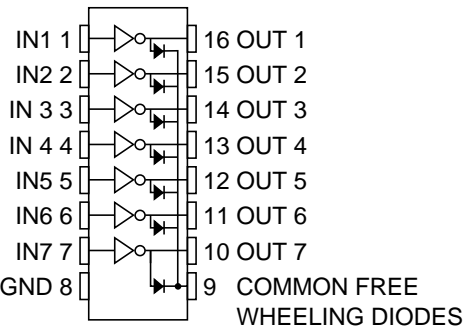


8. KEY COMPONENTS OF ELECTRONIC CIRCUIT

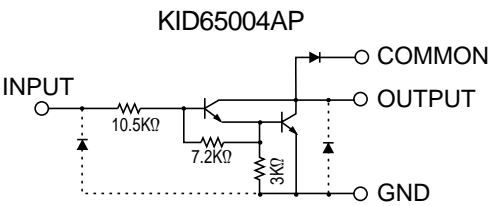
(1) U1 (MICOM)



(2) U2, 4 (KID65004) DARLINGTON ARRAYS

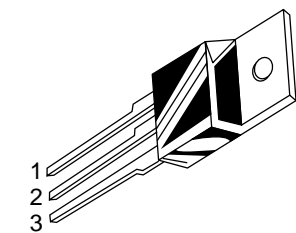


(Top View)

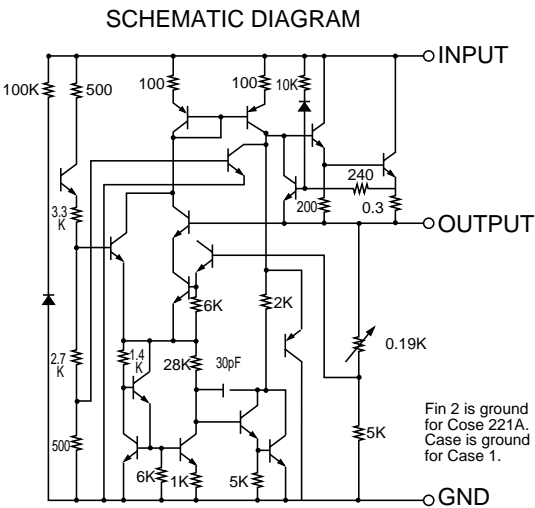


(Equivalent Circuit)

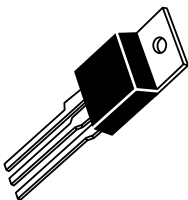
(3) U8 (KIA7805P) : VOLTAGE REGULATOR (5VDC)



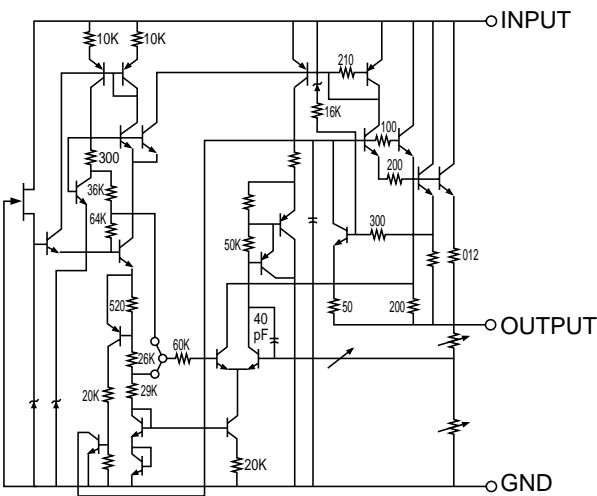
Pin 1. INPUT
2. GROUND
3. OUTPUT



(4) U7 (KIA7812P) : VOLTAGE REGULATOR (12VDC)

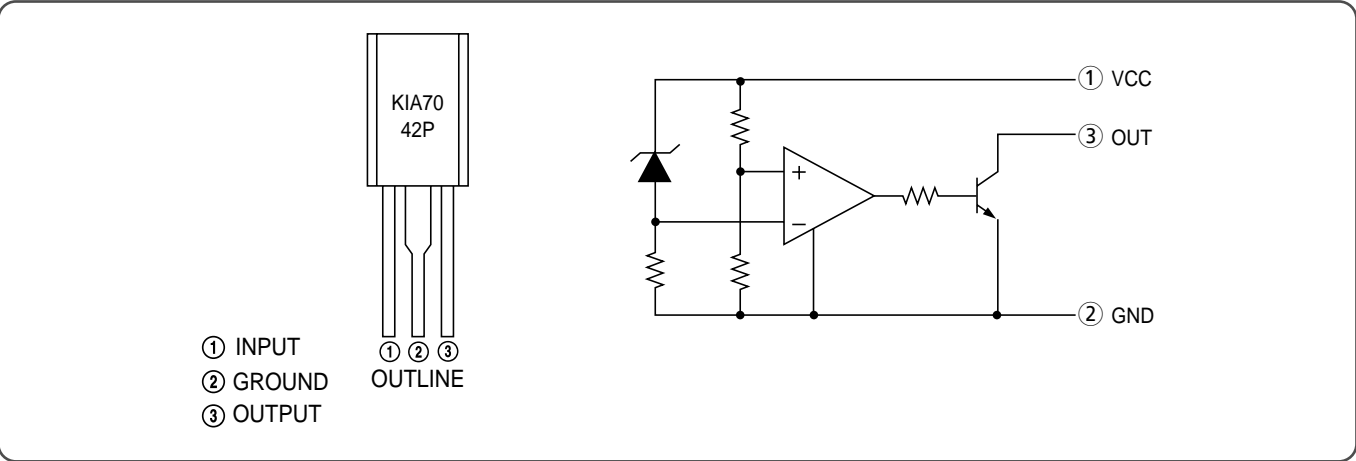


Pin 1. INPUT
2. GROUND
3. OUTPUT



(Equivalent Ciircuit)

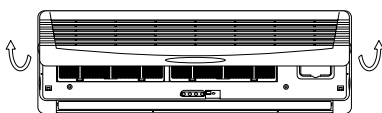
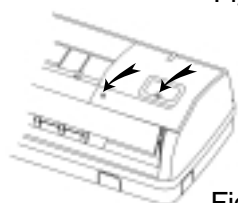
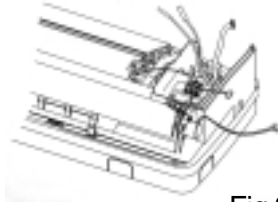
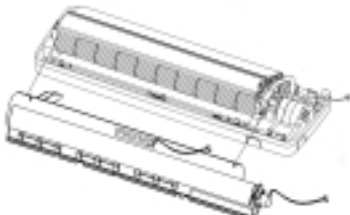
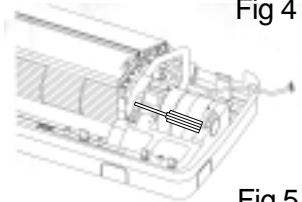
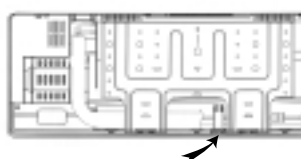
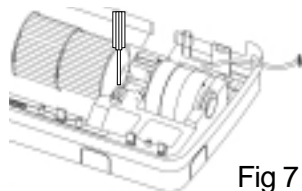
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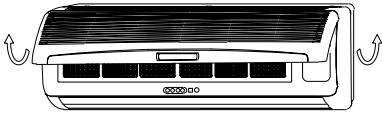
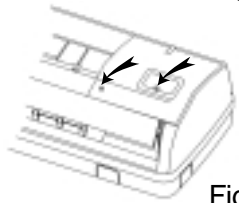
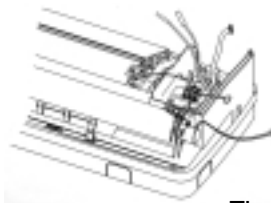
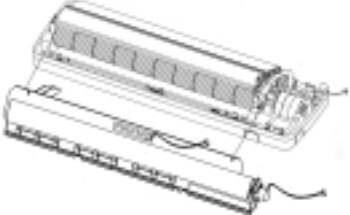
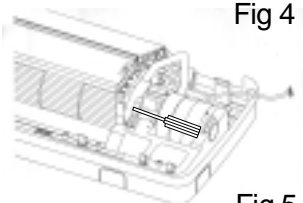
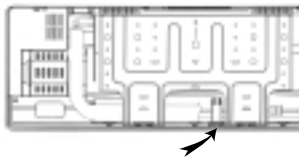
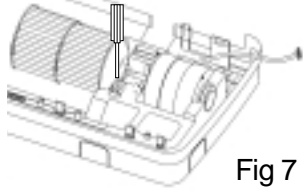
9. DISASSEMBLY INSTRUCTIONS

1 INDOOR UNIT

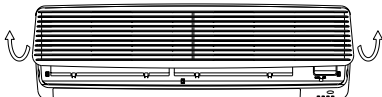
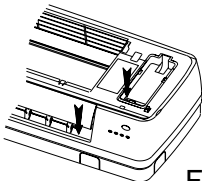
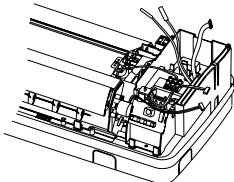
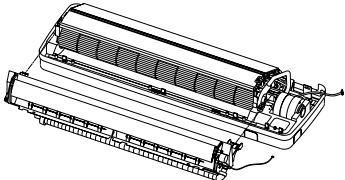
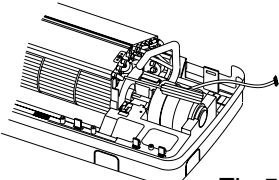
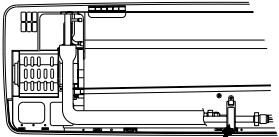
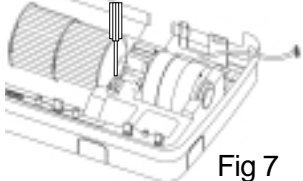
◆DSB-070L/DSB-091L

PROCEDURES	PHOTOS
1. Stop the operation of the Air conditioner and disconnect the power cord from the wall outlet.	 Fig 1
2. Removing the Insert Grille and Frame Grille. (Fig 1~2)	 Fig 2
① Draw up the Insert Grille and remove it. ② Loosen the screw fixed at the Cover Ter-Block. ③ Loosen two screws fixed at the Frame Grille. ④ Remove the Frame Grille.	 Fig 3
3. Removing the Control Box. (Fig 3)	 Fig 4
① Remove room and coil thermistors. ② Disconnect the fan motor lead wire from connection at the Control PCB. ③ Disconnect the stepping motor lead wire from connection at the Control PCB. ④ Remove the select switch from connection at the Control PCB. ⑤ Loosen the screw fixed at the ground wire. ⑥ Remove the Control Box	 Fig 5
4. Removing the Drain Pan. (Fig 4)	 Fig 6
① Disconnect the Body drain hole. (left and right Body) ② Disconnect three hooks and remove the Drain Pan.	 Fig 7
5. Removing the Indoor Evaporator. (Fig 5~6)	
① Remove the screw fixed at the indoor Evaporator of the Body. ② Remove the hook fixed at the Bracket Pipe of the back of Body. ③ Remove Indoor Evaporator.	
6. Removing the Cross Flow Fan. (Fig 7)	
① Remove set screw fixed at the Motor shaft. ② Remove Cross Flow Fan.	
7. Remove Motor IDU and Bearing Plastic.	

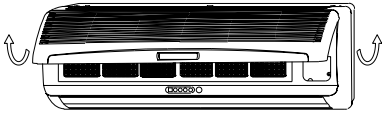

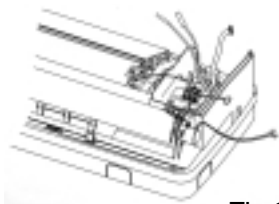
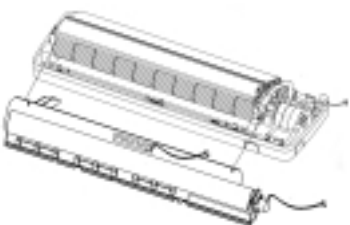
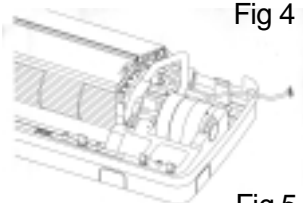
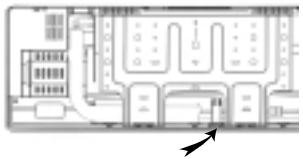
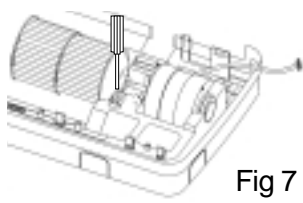
◆DSB-071L/DSB-092L

PROCEDURES	PHOTOS
<ol style="list-style-type: none"> 1. Stop the operation of the Air conditioner and disconnect the power cord from the wall outlet. 2. Removing the Insert Grille and Frame Grille. (Fig 1~2) <ol style="list-style-type: none"> ① Draw up the Insert Grille and remove it. ② Loosen the screw fixed at the Cover Ter-Block. ③ Loosen two screws fixed at the Frame Grille. ④ Remove the Frame Grille. 3. Removing the Control Box. (Fig 3) <ol style="list-style-type: none"> ① Remove room and coil thermistors. ② Disconnect the fan motor lead wire from connection at the Control PCB. ③ Disconnect the stepping motor lead wire from connection at the Control PCB. ④ Remove the select switch from connection at the Control PCB. ⑤ Loosen the screw fixed at the ground wire. ⑥ Remove the Control Box 4. Removing the Drain Pan. (Fig 4) <ol style="list-style-type: none"> ① Disconnect the Body drain hole. (left and right Body) ② Disconnect three hooks and remove the Drain Pan. 5. Removing the Indoor Evaporator. (Fig 5~6) <ol style="list-style-type: none"> ① Remove the screw fixed at the indoor Evaporator of the Body. ② Remove the hook fixed at the Bracket Pipe of the back of Body. ③ Remove Indoor Evaporator. 6. Removing the Cross Flow Fan. (Fig 7) <ol style="list-style-type: none"> ① Remove set screw fixed at the Motor shaft. ② Remove Cross Flow Fan. 7. Remove Motor IDU and Bearing Plastic. 	 <p>Fig 1</p>  <p>Fig 2</p>  <p>Fig 3</p>  <p>Fig 4</p>  <p>Fig 5</p>  <p>Fig 6</p>  <p>Fig 7</p>



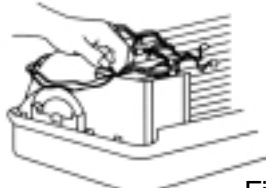
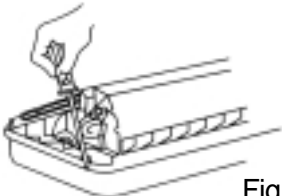
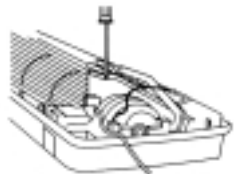
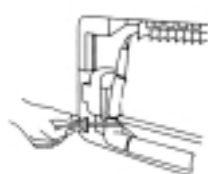

◆DSB-121L/DSB-122L

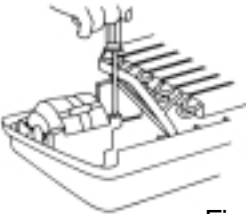
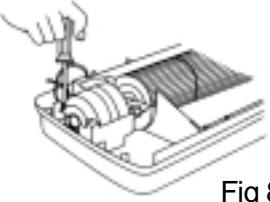
PROCEDURES	PHOTOS
<p>1. Stop the operation of the Air conditioner and disconnect the power cord from the wall outlet.</p>	
<p>2. Removing the Insert Grille and Frame Grille. (Fig 1~2)</p> <ol style="list-style-type: none"> ① Draw up the Insert Grille and remove it. ② Loosen two special screws fixed at the Cover Ter-Block. ③ Loosen three screws fixed at the Body. ④ Remove the Frame Grille. 	<p>Fig 1</p>  <p>Fig 2</p>
<p>3. Removing the Control Box. (Fig 3)</p> <ol style="list-style-type: none"> ① Remove room and coil thermistors. ② Disconnect the fan motor lead wire from connection at the Control PCB. ③ Disconnect the stepping motor lead wire from connection at the Control PCB. ④ Remove the select switch from connection at the Control PCB. ⑤ Loosen the screw fixed at the ground wire. ⑥ Remove the Control Box 	 <p>Fig 3</p>  <p>Fig 4</p>
<p>4. Removing the Drain Pan. (Fig 4)</p> <ol style="list-style-type: none"> ① Disconnect the Body drain hole. (left and right Body) ② Disconnect three hooks and remove the Drain Pan. 	 <p>Fig 5</p>
<p>5. Removing the Indoor Evaporator. (Fig 5~6)</p> <ol style="list-style-type: none"> ① Remove three screws fixed at the indoor Evaporator of the Body. ② Remove the hook fixed at the Bracket Pipe of the back of Body. ③ Remove the Indoor Evaporator. 	 <p>Fig 6</p>
<p>6. Removing the Cross Flow Fan. (Fig 7)</p> <ol style="list-style-type: none"> ① Remove set screw fixed at the Motor shaft. ② Remove the Cross Flow Fan. 	 <p>Fig 7</p>
<p>7. Remove Motor IDU and Bearing Plastic.</p>	

◆DSB-123L/DSA-123L

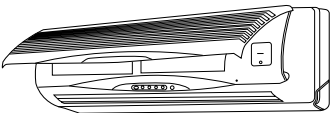
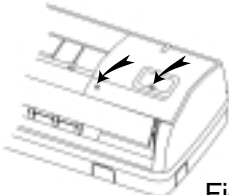

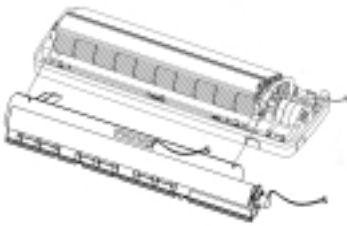
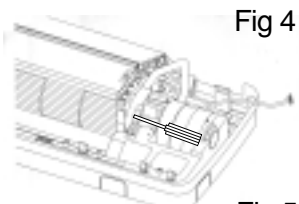
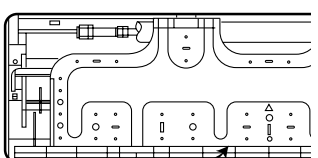
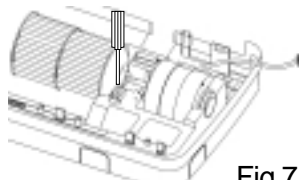
PROCEDURES	PHOTOS
<p>1. Stop the operation of the Air conditioner and disconnect the power cord from the wall outlet.</p>	 <p>Fig 1</p>
<p>2. Removing the Insert Grille and Frame Grille. (Fig 1~2)</p> <ol style="list-style-type: none"> ① Draw up the Insert Grille and remove it. ② Loosen the screw fixed at the Cover Ter-Block. ③ Loosen four screws fixed at the Frame Grille. ④ Remove the Frame Grille. 	 <p>Fig 2</p>
<p>3. Removing the Control Box. (Fig 3)</p> <ol style="list-style-type: none"> ① Remove room and coil thermistors. ② Disconnect the fan motor lead wire from connection at the Control PCB. ③ Disconnect the stepping motor lead wire from connection at the Control PCB. ④ Remove the select switch from connection at the Control PCB. ⑤ Loosen the screw fixed at the ground wire. ⑥ Remove the Control Box 	 <p>Fig 3</p>  <p>Fig 4</p>
<p>4. Removing the Drain Pan. (Fig 4)</p> <ol style="list-style-type: none"> ① Disconnect the Body drain hole. (left and right Body) ② Disconnect three hooks and remove the Drain Pan. 	 <p>Fig 5</p>
<p>5. Removing the Indoor Evaporator. (Fig 5~6)</p> <ol style="list-style-type: none"> ① Remove two screws fixed at the indoor Evaporator of the Body. ② Remove the hook fixed at the Bracket Pipe of the back of Body. ③ Remove Indoor Evaporator. 	 <p>Fig 6</p>
<p>6. Removing the Cross Flow Fan. (Fig 7)</p> <ol style="list-style-type: none"> ① Remove set screw fixed at the Motor shaft. ② Remove Cross Flow Fan. 	 <p>Fig 7</p>
<p>7. Remove Motor IDU and Bearing Plastic.</p>	

◆DSB-181L/182L/182L-R, DSA-182L/DSA-181L

PROCEDURES	PHOTOS
<ol style="list-style-type: none"> 1. Stop the operation of the Air conditioner and disconnect the power cord from the wall outlet. 2. Removing the Insert Grille and Frame. <ol style="list-style-type: none"> ① Loosen three screws fixed at the the Insert Grille and Frame. (Pull out the frame cap before loosening three screws) (Fig 1) ② Loosen three screws fixed at the Drain Pan. ③ Remove the Insert Grille and Frame. 3. Removing the Control Box. <ol style="list-style-type: none"> ① Disconnect indoor room and coil thermistors. (Fig 3) ② Disconnect the fan motor lead wire from connection at the main PCB. (Fig 3) ③ Disconnect the swing motor connection wire. ④ Loosen the screw fixed at the ground wire. ⑤ Loosen two screws fixed at the the body. 4. Removing the Drain Pan. <ol style="list-style-type: none"> ① Loosen the screw fixed at the body. (Fig 4) ② Unhook the right part of Drain Pan. 5. Removing the Indoor Coil. <ol style="list-style-type: none"> ① Loosen four screws fixed at the indoor coil of left and right side. (Fig 5) ② Loosen the screw fixed at the the bracket tube of the back side. (Fig 6) ③ Remove the indoor coil. (Fig. 6-1) 6. Removing the fan motor. <ol style="list-style-type: none"> ① Loosen two screws fixed at the holder moter of left and right side. (Fig 7, 8) ② Loosen the screw fixed at the fan motor and the blower. ③ Renove the fan motor. 	 <p>Fig 1</p>  <p>Fig 2</p>  <p>Fig 3</p>  <p>Fig 4</p>  <p>Fig 5</p>  <p>Fig 6</p>  <p>Fig 6-1</p>

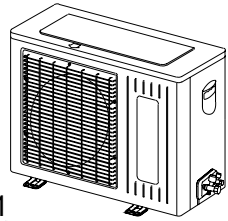
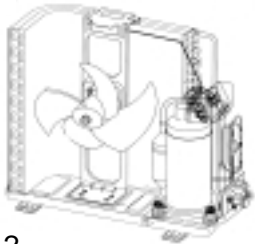
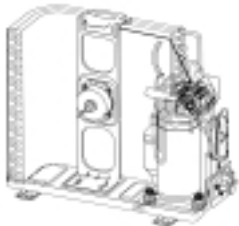
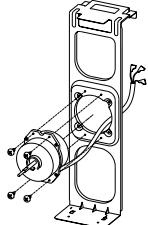

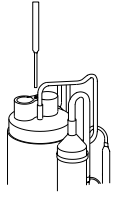
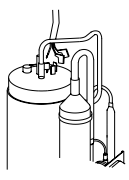
PROCEDURES	PHOTOS
<p>7. Removing the blower.</p> <ol style="list-style-type: none"> ① Loosen the screw fixed at the holder bearing. ② Remove the blower. 	 <p>Fig 7</p>  <p>Fig 8</p>

◆DSA-183L/183L-R/240L-R/240L, DSB-183L-R/240L-R

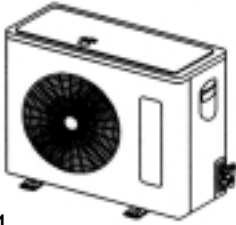
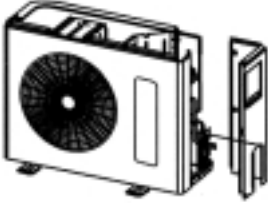
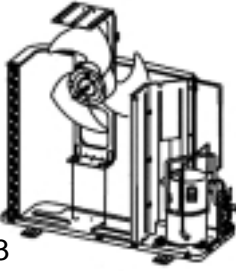
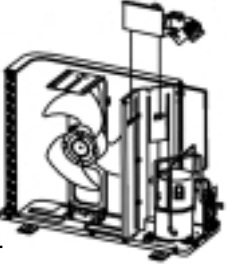
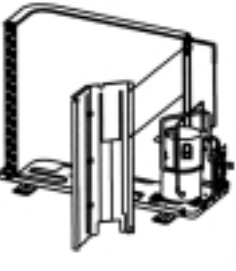
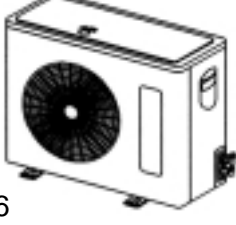
PROCEDURES	PHOTOS
<p>1. Stop the operation of the Air conditioner and disconnect the power cord from the wall outlet.</p> <p>2. Removing the Insert Grille and Frame Grille. (Fig 1~2)</p> <ol style="list-style-type: none"> ① Draw up the Insert Grille and remove it. ② Loosen the screw fixed at the Cover Ter-Block. ③ Loosen two screws at the Frame Grille. ④ Remove the Frame Grille. <p>3. Removing the Control Box. (Fig 3)</p> <ol style="list-style-type: none"> ① Remove room and coil thermistors. ② Disconnect the fan motor lead wire from connection at the Control PCB. ③ Disconnect the stepping motor lead wire from connection at the Control PCB. ④ Remove the select switch from connection at the Control PCB. ⑤ Loosen the screw fixed at the ground wire. ⑥ Remove the Control Box <p>4. Removing the Drain Pan. (Fig 4)</p> <ol style="list-style-type: none"> ① Disconnect the Body drain hole. (left and right Body) ② Disconnect three hooks and remove the Drain Pan. <p>5. Removing the Indoor Evaporator. (Fig 5~6)</p> <ol style="list-style-type: none"> ① Remove the hook fixed at the Plate mounting at the back of Body. ② Remove Indoor Evaporator. <p>6. Removing the Cross Flow Fan. (Fig 7)</p> <ol style="list-style-type: none"> ① Remove the set screw fixed at the Motor shaft. ② Remove the Cross Flow Fan. <p>7. Remove the Motor IDU and the Bearing Plastic.</p>	 <p>Fig 1</p>  <p>Fig 2</p>  <p>Fig 3</p>  <p>Fig 4</p>  <p>Fig 5</p>  <p>Fig 6</p>  <p>Fig 7</p>

2 OUTDOOR UNIT

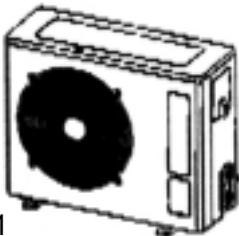
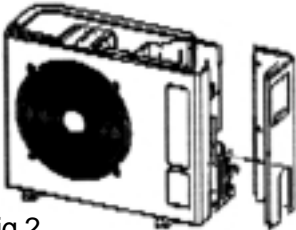
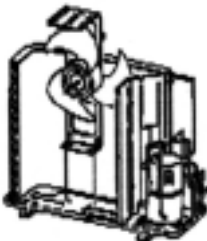
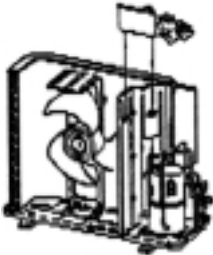
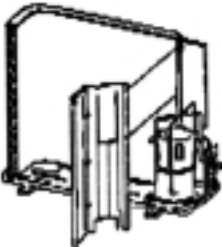
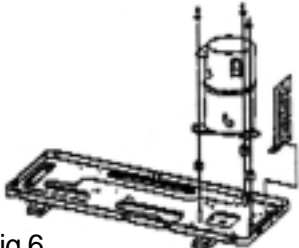
◆DSB-070L/071L/DSB-091L/092L/DSB-121L/122L/123L/DSA-123L

PROCEDURES	PHOTOS
<p>1. Stop the operation of the air conditioner and disconnect the wire from Indoor Unit to Outdoor Unit.</p>	 <p>Fig 1</p>
<p>2. Disassemble the case. (Fig 1~2)</p> <ol style="list-style-type: none"> ① Remove the Top Panel. (Loosen thirteen screws) ② Remove the Front Cabinet. (Loosen six screws) ③ Remove the Side Cabinet. (Loosen seven screws) ④ Remove the Guide Support. (Loosen two screws) 	 <p>Fig 2</p>
<p>3. Removing the Propeller Fan. (Fig 3)</p> <ol style="list-style-type: none"> ① Loosen the Nut fixed at the the Propeller Fan. ② Remove the Plain Washer. ③ Remove the Propeller Fan. 	 <p>Fig 3</p>
<p>4. Removing the Motor ODU. (Fig 4)</p> <ol style="list-style-type: none"> ① Loosen four screws fixed at the Bracket Motor. ② Disconnect the wire at the Control Panel and remove the Motor ODU. 	 <p>Fig 4</p>
<p>5. Removing the Dual Capacitor. (Fig 5)</p> <ol style="list-style-type: none"> ① Disconnect the wire at the Control Panel. ② Loosen the screw fixed at the Clamp Capacitor. ③ Remove the Dual Capacitor. 	 <p>Fig 5</p>
<p>6. Removing the Over load Protector. (Fig 6~7)</p> <ol style="list-style-type: none"> ① Loosen the Hex Nut at Terminal Cover. ② Remove the Terminal Cover. ③ Remove the wire at the Over load Protector. ④ Remove the Over load Protector. 	 <p>Fig 6</p>
	 <p>Fig 7</p>

◆DSB-181L/182L/182L-R/183L-R, DSA-181L/182L/183L-R/DSA-181L

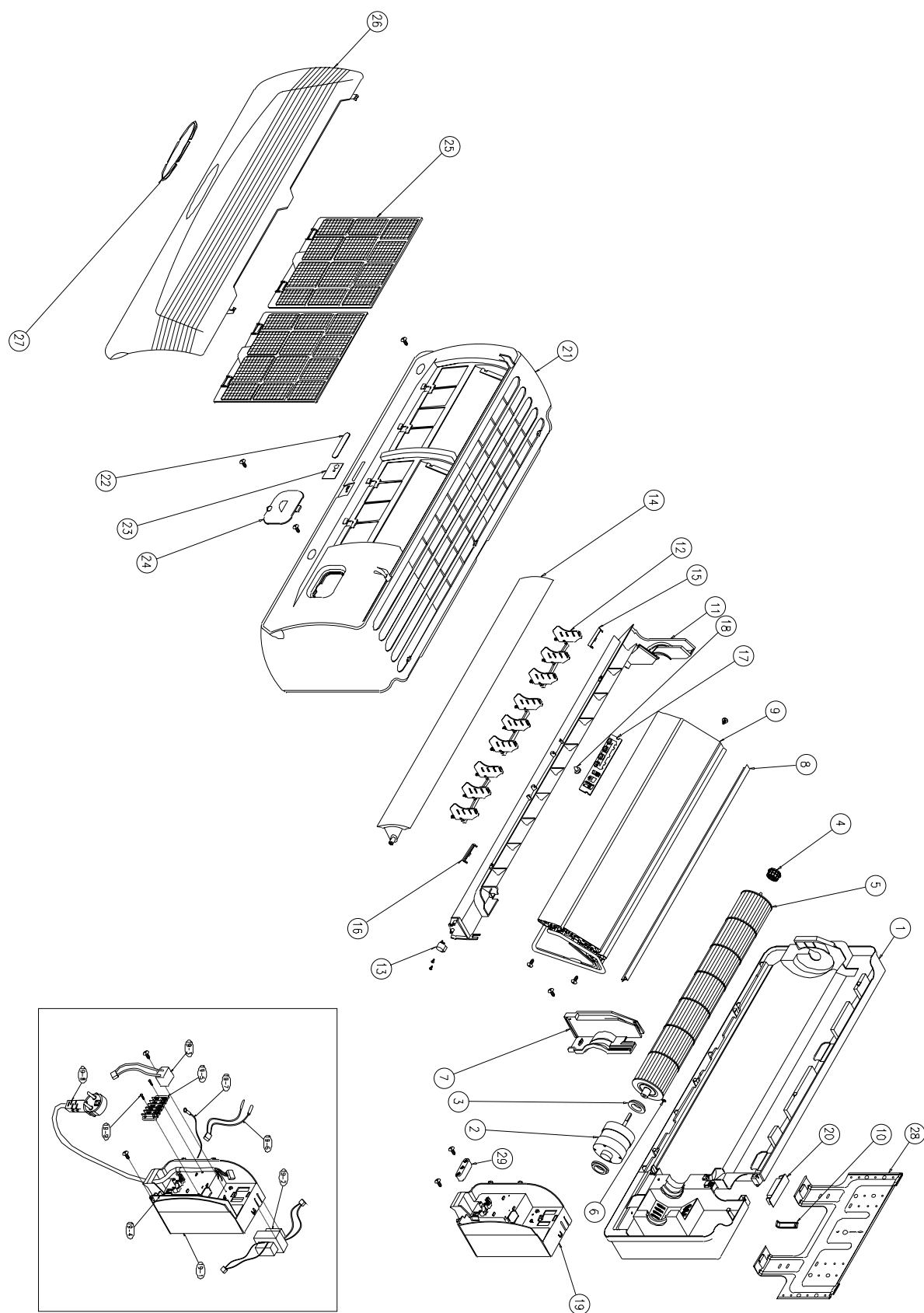
PROCEDURES	PHOTOS
<p>1. Stop the operation of the air conditioner and dis connect the wire from in door unit to out door unit.</p> <p>2. Disassemble the case. (Fig 1~2)</p> <ol style="list-style-type: none"> ① Remove the Top Panel. ② Remove the Side Cabinet. ③ Remove the Front Cabinet. <p>3. Removing the Propeller Fan. (Fig 3)</p> <ol style="list-style-type: none"> ① Loosen the screw fixed at the motor bracket. ② Remove the Plain Washer. ③ Remove the Propeller Fan. <p>4. Remove the panel control. (Fig 4)</p> <ol style="list-style-type: none"> ① Disconnect the wire at the control panel. ② Loosen the screw fixed at the panel control. ③ Remove the parts on panel control. <p>5. Remove the partition panel. (Fig 5)</p> <ol style="list-style-type: none"> ① Loosen four screws at the bracket motor. ② Disconnect the wire at the control panel. <p>6. Removing the Over load Protector. (Fig 6)</p> <ol style="list-style-type: none"> ① Remove the cocondenser ② Loosen three volts at compressor. ③ Remove the compressor. 	 <p>Fig 1</p>  <p>Fig 2</p>  <p>Fig 3</p>  <p>Fig 4</p>  <p>Fig 5</p>  <p>Fig 6</p>

DSB-240L-R/DSA-240L-R/240L

PROCEDURES	PHOTOS
<p>1. Stop the operation of the air conditioner and disconnect the wire from in door unit to out door unit.</p> <p>2. Disassemble the case. (Fig 1~2)</p> <ol style="list-style-type: none"> ① Remove the Top Panel. ② Remove the Front Cabinet. ③ Remove the Side Cabinet. <p>3. Removing the Propeller Fan. (Fig 3)</p> <ol style="list-style-type: none"> ① Loosen the screw fixed at the motor bracket. ② Remove the Plain Washer. ③ Remove the Propeller Fan. <p>4. Temove the panel control. (Fig 4)</p> <ol style="list-style-type: none"> ① Disconnect the wire at the control panel. ② Loosen the screw at the panel control. ③ Remove the parts on the panel control. <p>5. Remove the partition panel. (Fig 5)</p> <ol style="list-style-type: none"> ① Loosen four screws at the bracket motor. ② Disconnect the wire at the control panel. <p>6. Removing the Over load Protector. (Fig 6)</p> <ol style="list-style-type: none"> ① Remove the cocondenser ② Loosen three volts at the compressor. ③ Remove the compressor. 	 <p>Fig 1</p>  <p>Fig 2</p>  <p>Fig 3</p>  <p>Fig 4</p>  <p>Fig 5</p>  <p>Fig 6</p>

3 EXPLODED DIAGRAM (Indoor Unit)

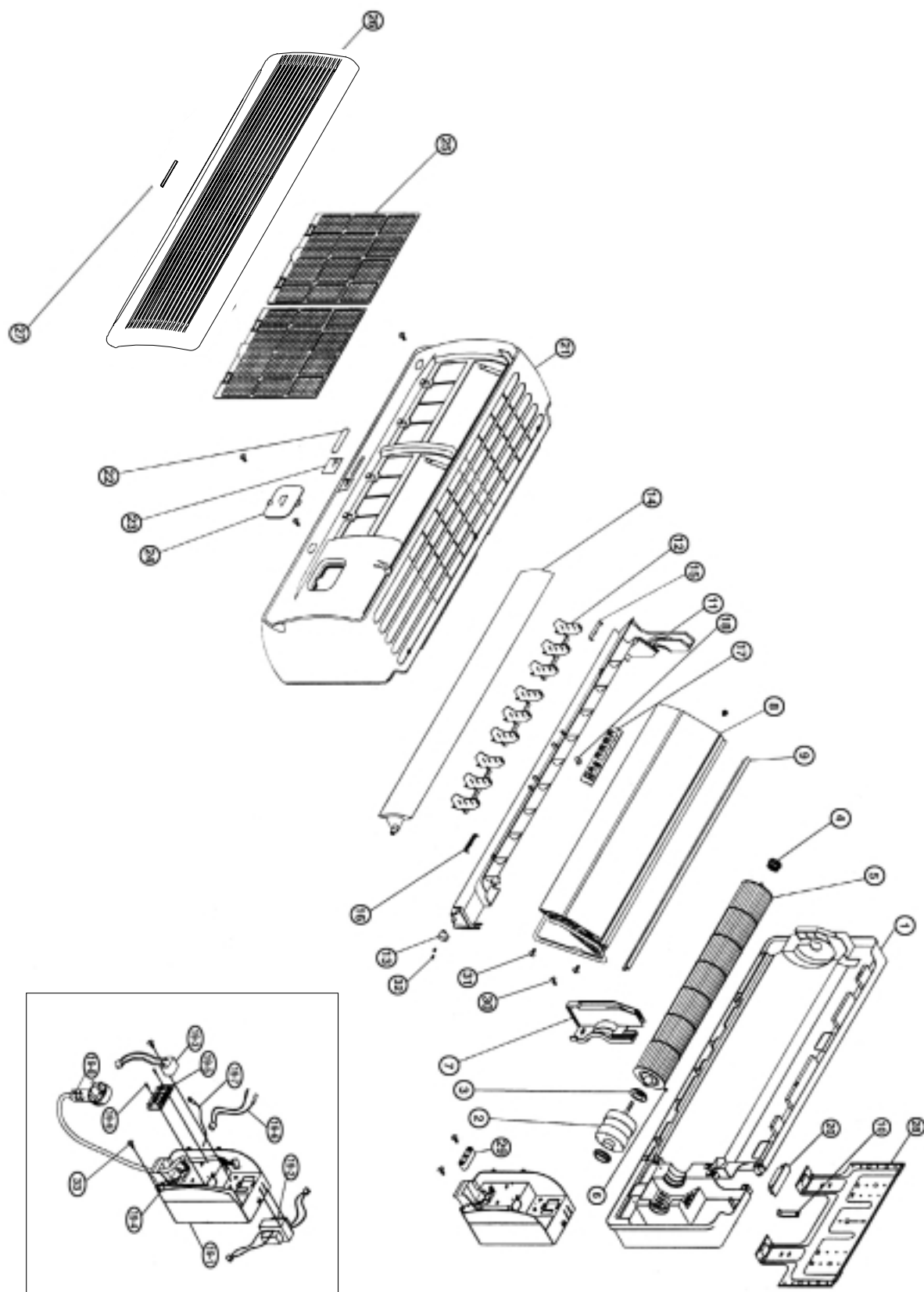
◆DSB-070L/DSB-091L



◆DSB-070L/DSB-091L PART LIST(INDOOR UNIT)

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
1	3100400301	BODY	1	HIPS T2.0	
2	3108008700	MOTOR IDU			
3	3101500400	CUSHION MOTOR	2	CR Ø30	
4	3106400400	BEARING PLASTIC ASS'Y	1		
5	3100053700	FAN CROSS FLOW ASS'Y	1	Ø90.0xL540	
6	7485401012	SET SCREW	1	6S-4x10-E MFZN	
7	3103002601	HOLDER MOTOR	1	HIPS T2.0	
8	3100053800	EVAPORATOR ASS'Y	1		
9	3102501220	EVAP. GUIDE	1	PVC T0.7 L536	
10	3100603800	BRACKET PIPE	1	HIPS T2.0	
11	3108100801	PAN DRAIN	1	HIPS T2.0	
12	3106501600	BLADE VERTICAL	3	P.P. T1.5	
13	3108003910	MOTOR STEPPING	1	24BYJ48-S1	
14	3107600400	FLAP	1	HIPS T2.5	
15	3101404800	COVER WIRE L	1	HIPS	
16	3101404900	COVER WIRE R	1	HIPS	
17	3100054202	LED PCB ASS'Y	1		
18	3100901600	CAP RUBBER	1	SILICON	
19-1	3100508400	CONTROL BOX	1	P.P.+G.F.20%	
19-2	3106900300	CAPACITOR SH. M. B	1	1.0μF 400VAC	
19-3	3110051000	CONTROL PCB ASS'Y	1		
19-4	3108914100	TERMINAL BLOCK	1	JXO-CH-3P	
19-5	3104896300	SENSOR ID ASS'Y	1	PTM-KD-43C-D2	
19-6	3102797910	HARNESS	1	I.D EARTH	
19-7	3101300100	POWER CORD ASS'Y	1	16A 250V	
19-8	7111301611	SCREW TAPPING	2	T1S PAN 3x16 MFZN	
20	3100400410	BODY-TOP	1	HIPS T2.0	
21	3102200800	FRAME GRILLE	1	HIPS T2.5	
22	3104508700	PLATE LED	1	PC SHEET T0.2	
23	3104510200	PLATE SWITCH	1	PC SHEET T0.2	
24	3101404600	COVER TERMINAL BLOCK	1	HIPS T2.0	
25	3102200900	FILTER FRAME	2	P.P. T2.0	
26	3102402200	INSERT GRILLE	1	HIPS T2.5	
27	3101403900	COVER LED	1	ABS(TRANSPARENCY) T2.0	
28	3104507200	PLATE MOUNTING	1	SBHG 1 T0.7	
29	3101203000	CLAMP WIRE	1	P.P.+G.F.20%	
30	7S422X40B1	SPECIAL SCREW	8	TT2 TRS SE 4x12 MFZN	
31	7112400611	SCREW TAPPING	2	T1S TRS 4x6 MFZN	
32	7141400811	SCREW TAPPING	2	T2 PAN 4x8 MFZN	
33	7122401211	SCREW TAPPING	1	T2S TRS 4x12 MFZN	

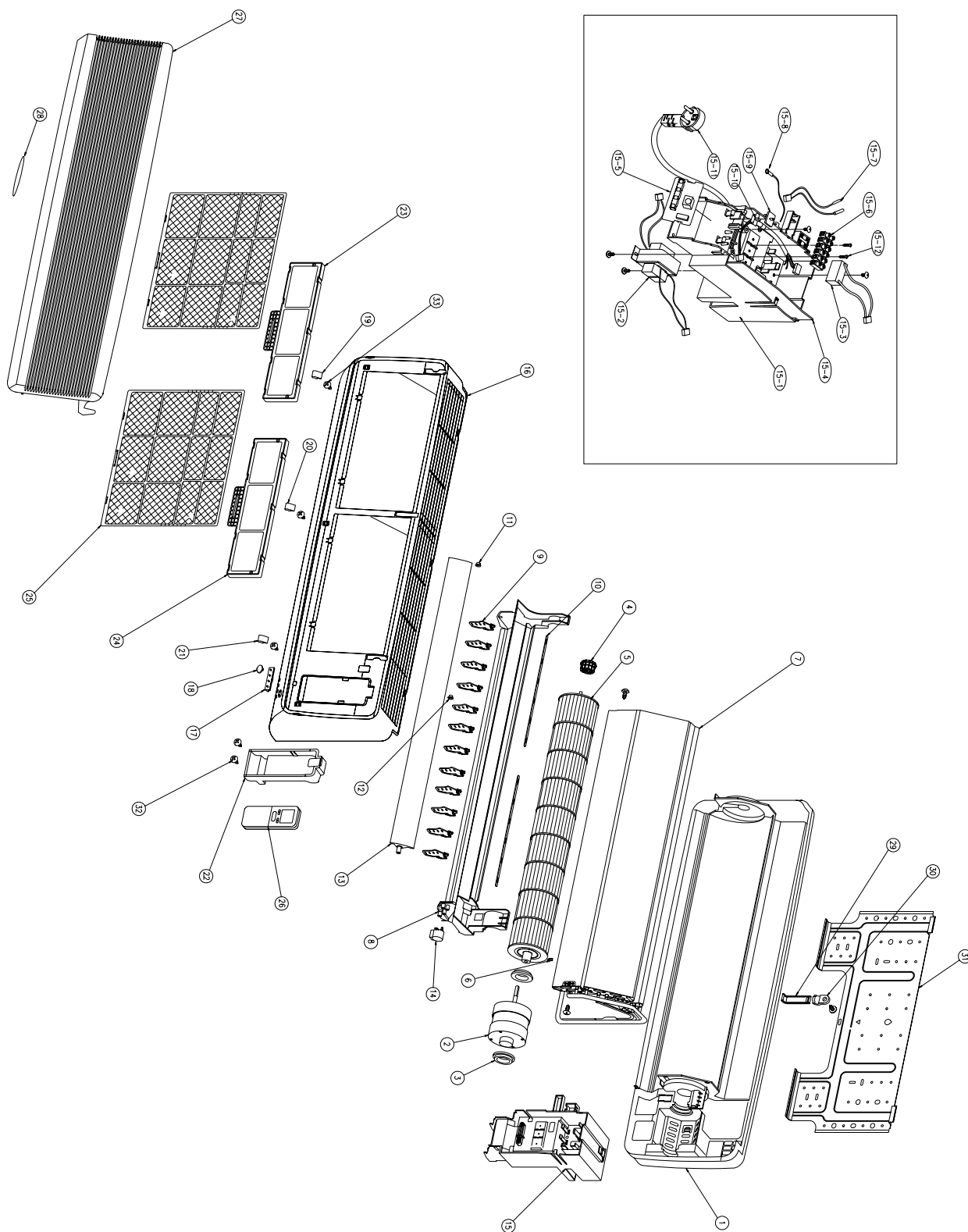
◆DSB-071L/DSB-092L



◆DSB-071L/DSB-092L PART LIST(INDOOR UNIT)

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
1	3100400300	BODY	1	HIPS T2.0	
2	3108004700	MOTOR IDU	1	IC-8417DWKF5A	
3	3101500400	CUSHION MOTOR	2	CR Ø30	
4	3106400400	BEARING PLASTIC ASS'Y	1		
5	3100053700	FAN CROSS FLOW ASS'Y	1	Ø90.0xL540	
6	7485401012	SET SCREW	1	6S-4x10-E MFZN	
7	3103002600	HOLDER MOTOR	1	HIPS T2.0	
8	3100053800	EVAPORATOR ASS'Y	1		
9	3102501200	EVAP. GUIDE	1	PVC T1.0 L536	
10	3100603800	BRACKET PIPE	1	HIPS T2.0	
11	3108100800	PAN DRAIN	1	HIPS T2.0	
12	3106501600	BLADE VERTICAL	3	P.P. T1.5	
13	3108003910	MOTOR STEPPING	1	24BYJ48-S1	
14	3107600400	FLAP	1	HIPS T2.5	
15	3101404800	COVER WIRE L	1	HIPS	
16	3101404900	COVER WIRE R	1	HIPS	
17	3100054200	LED PCB ASS'Y	1		
18	3100901600	CAP RUBBER	1	SILICON	
19-1	3100508400	CONTROL BOX	1	P.P.+G.F.20%	
19-2	5EPV050120	TRANSFORMER	1	DWA-220B	
19-3	3106900300	CAPACITOR SH. M. B	1	1.0µF 400VAC	
19-4	3100054400	CONTROL PCB ASS'Y	1		
19-5	3108914100	TERMINAL BLOCK	1	JXO-CH-3P	
19-6	3104896300	SENSOR ID ASS'Y	1	PTM-KD-43C-D2	
19-7	3102797910	HARNESS	1	I.D EARTH	
19-8	31013A24B1	POWER CORD ASS'Y	1	16A 250V	
19-9	7111301611	SCREW TAPPING	2	T1S PAN 3x16 MFZN	
20	3100400400	BODY-TOP	1	HIPS T2.0	
21	3102200800	FRAME GRILLE	1	HIPS T2.5	
22	3104508700	PLATE LED	1	PC SHEET T0.2	
23	3104510200	PLATE SWITCH	1	PC SHEET T0.2	
24	3101404600	COVER TERMINAL BLOCK	1	HIPS T2.0	
25	3102200900	FILTER FRAME	2	P.P. T2.0	
26	3112400800	INSERT GRILLE	1	HIPS T2.5	
27	3115500500	WINDOW LED			
28	3104507200	PLATE MOUNTING	1	SBHG 1 T0.7	
29	3101203000	CLAMP WIRE	1	P.P.+G.F.20%	
30	7S422X40B1	SPECIAL SCREW	8	TT2 TRS SE 4x12 MFZN	
31	7112400611	SCREW TAPPING	2	T1S TRS 4x6 MFZN	
32	7141400811	SCREW TAPPING	2	T2 PAN 4x8 MFZN	
33	7122401211	SCREW TAPPING	1	T2S TRS 4x12 MFZN	

◆DSB-121L/DSB-122L



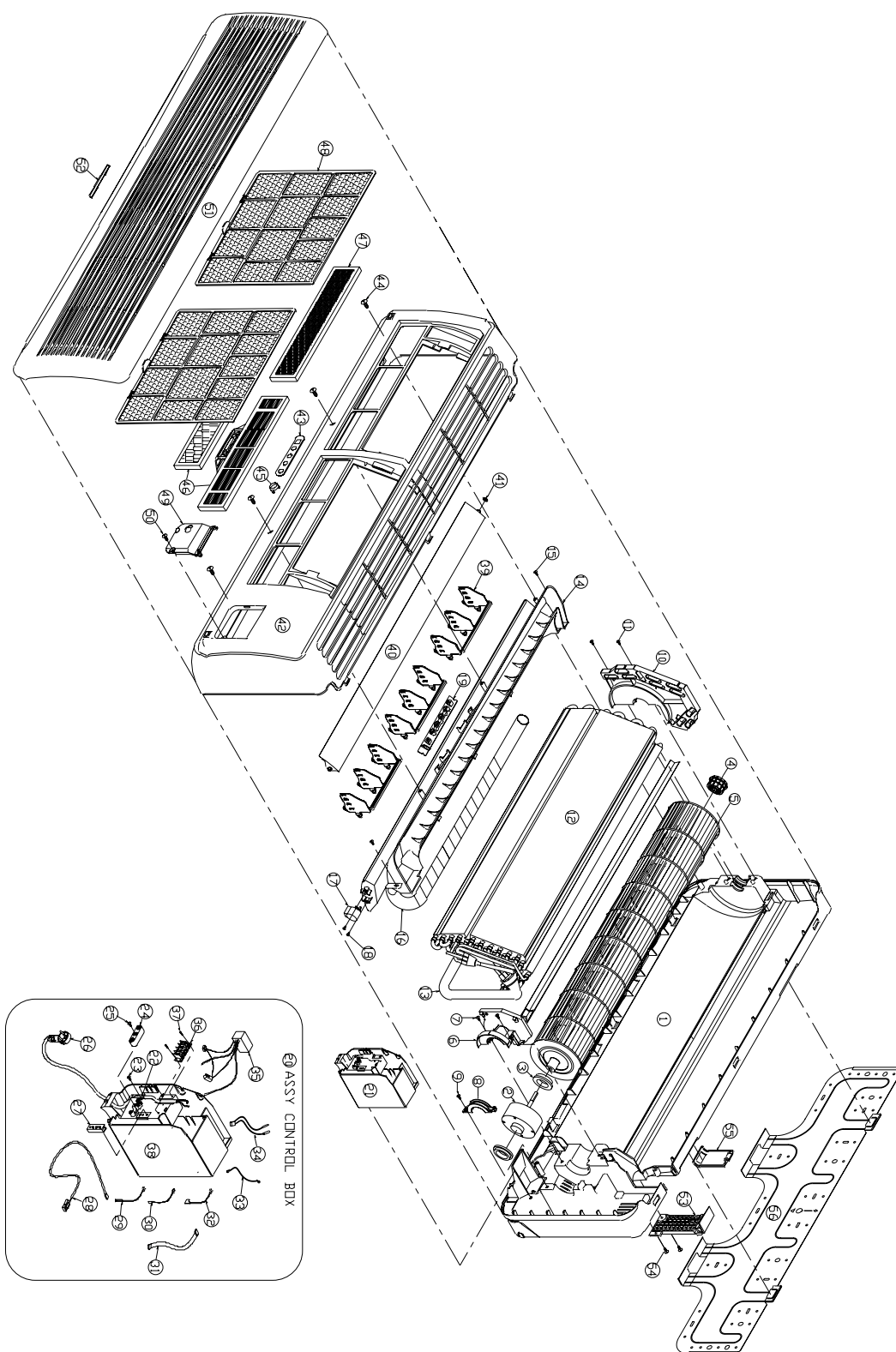
◆DSB-121L/122L PART LIST(INDOOR UNIT)

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
1	3100400201	BODY	1	ABS or HIPS	
2	3108001220	MOTOR IDU	1	220V 50/60Hz	
3	3101500400	CUSHION MOTOR	2	CR	
4	3106400200	BEARING PLASTIC ASS'Y	1		
5	3100014400	FAN CROSS FLOW ASS'Y	1	SAN+G. F20%	
6	7485401012	SET SCREW	1	6S-4 X 10-E	
7	3100014300	EVAPORATOR ASS'Y	1		
8	3108100401	PAN DRAIN	1	ABS	
9	3106500800	BLADE VERTICAL MN	12	ABS	
10	3106300800	BAR BLADE	2	ABS	
11	3100700800	BUSHING L	1	POM	
12	3100700700	BUSHING R	1	POM	
13	3107600300	FLAP	1	ABS	
14	3108000200	MOTOR STEPPING	1	28BYJ48-V2	
15	3100038210	CONTROL BOX ASS'Y	1		BUYER
15-1	3100503101	BOX CONTROL	1	P.P+G.F30%	
15-2	5EPV050100	TRANS FORMER	1	DWA220A-50/60Hz	
15-3	3106900300	CAPACITOR SH.M.B	1	1.0μF 400VAC	
15-4	3100054400	CONTROL PCB ASS'Y	1		
15-5	3100054200	LED PCB ASS'Y	1		
15-6	3108914100	TERMINAL BLOCK	1	JXO-CH-3P	
15-7	3104896300	SENSOR I.D ASS'Y	1	PTM-KD43C-D2	

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
15-8	3102797910	HARNESS	1	I.D EARTH	
15-9	3103400300	KNOB RESET SWITCH	1	ABS	
15-10	3100024000	MODE SELECT ASS'Y	1	TS-11 & HARNESS	
15-12	7111301611	TAPPING SCREW	2	T1S PAN 3 X 16 MFZN	
16	3102200401	FRAME	1	ABS	BUYER
17	3103600300	LAMP INDICATE	1	MIPS	
18	3105500500	WINDOW SENSOR	1	ACRIL	
19	3100901000	CAP FRAME L	1	ABS	
20	3100900900	CAP FRAME C	1	ABS	
21	3100900800	CAP FRAME R	1	ABS	
22	3101401701	COVER TER-BLOCK	1	ABS	
23	3100017800	FILTER ELECTRO ASS'Y	1		
24	3100017900	FILTER CARBON ASS'Y	1		
25	3100017700	FILTER PRE ASS'Y	2		
26		REMOCON ASS'Y	1		BUYER
27	3102401500	INSERT GRILLE	1	ABS	
28	3107500200	EMBLEM	1	URETANE	BUYER
29	3100602400	BRACKET PIPE	1	HIPS	
30	3101201200	CLAMP BRACKET PIPE	1	HIPS	
31	3104503900	PLATE MOUNTING	1	SBHG1	
32	3106001600	SPECIAL SCREW	1	T2 4 X 16 MFNI LOCKING	
33	7S422X40B1	SPECIAL SCREW	13	TT2 TRS SE 4x12 MFZN	

*NO 15, 15-11, 16, 26, 28 Will be changed depend on export destination & buyer requirements.

◆DSB-123L/DSA-123L

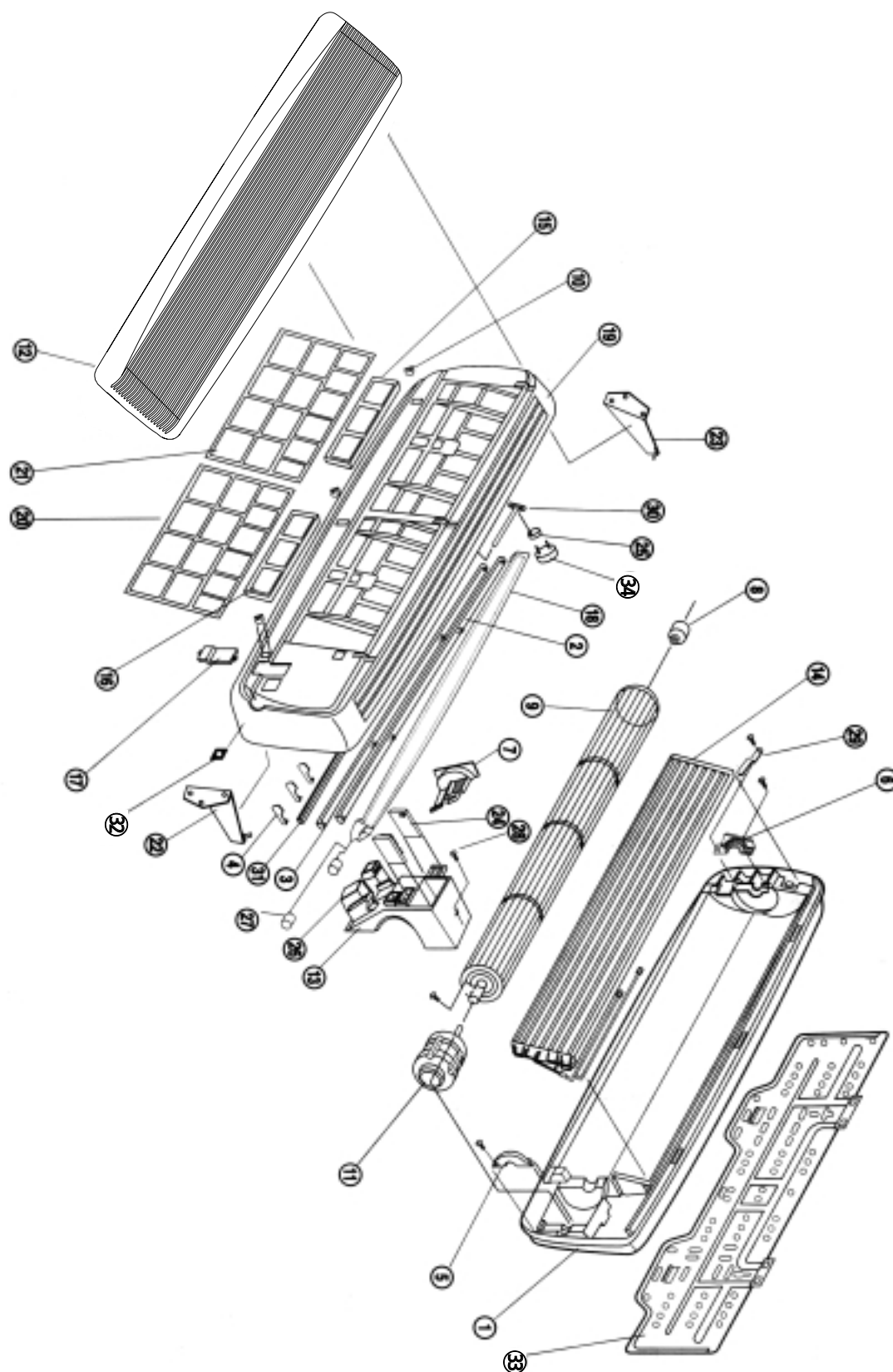


◆DSB-123L/DSA-123L PART LIST(INDOOR UNIT)

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
1	3110400300	BODY	1	HIPS T2.0 (GY171A)	
2	3110078100	MOTOR IDU ASSY	1	ASSY	
3	3118003500	MOTOR IDU	1	RB13B(220V, 50/60V)	
4	3106400400	BEARING PLASTIC ASSY	1	DSB-123L/LH/PH	
5	3110046000	FAN CROSS FLOW ASS'Y	1	SAN+G.F 30% ø100xL615	
6	3113000400	HOLDER MOTOR L	1	HIPS T2.0	
7	7172401211	SPECIAL SCREW	2	TT2 TRS 4*12 MFZN	
8	3113000500	HOLDER MOTOR R	1	HIPS T2.0	
9	7172401211	SPECIAL SCREW	1	TT2 TRS 4*12 MFZN	
10	3114503300	PLATE EVAP. L	1	PP T2.0(GY176A)	
11	7172401211	SPECIAL SCREW	2	TT2 TRS 4*12 MFZN	
12	3110054100	EVAPORATOR	1	ASSY (3R-3C, FPI=1.5)	
13	3113309800	PIPE ARTRON HOSE	1	O.D ø32 I.D ø20 T=6, F-PE	
14	3118100500	PAN DRAIN	1	HIPS T2.0(GY176A)	
15	7172401211	SPECIAL SCREW	2	TT2 TRS 4*12 MFZN	
16	3103210010	HOSE DRAIN ASSY	1	ASSY	
17	3108003910	MOTOR STEPPING	1	24BYJ48-S1	
18	7141400811	SCREW TAPPING	2	T2 PAN M4x8 MFZN	
19	3104301700	LED PCB ASS'Y	1	DSB-123L	
20	3110059400	CONTROL BOX ASS'Y	1	DSB-123L	
21	3110504000	CONTROL BOX	1	HIPS T2.0 (BLACK)	
22	3101204600	CLAMP POWER CORD	1	DA-4N	
23	7172401211	SPECIAL SCREW	1	TT2 TRS 4*12 MFZN	
24	3111200800	CLAMP WIRE	1	HIPS T2.0 (BLACK)	
25	7172401211	SPECIAL SCREW	1	TT2 TRS 4*12 MFZN	
26	3111312110	POWER CORD ASSY	1		
27	3114503900	PLATE EARTH	1	SGCC T1.0x26xP46	
28	3102702201	HARNESS TH3-1	1		
29	3112716000	HARNESS 4W SIGNAL	1		
30	3112715900	HARNESS MOTOR SIGNAL	1		
31	3112716100	HARNESS LED PCB	1		
32	3112715800	HARNESS COMP SIGNAL	1		
33	3112716250	HARNESS I/D EARTH	1	GREEN/YELLOW	
34	3104896300	SENSOR I/D ASSY	1		
35	3100033320	VOLTAGE GENERATOR	1	6.2KV	
36	3118900200	TERMINAL BLOCK	1	JXO-CH-2P (DSB-123L)	
	3108914200		1	JXO-CH-4P (DSB-123LH/PH)	
37	7111301611	SCREW TAPPING	2	T1S PAN 3x16 MFZN	

No	PART CODE	PART NAME	Q'TY	SPEC REMARK	
38	3114302020	CONTROL PCB ASS'Y	1	DSB-123L	
39	3116501000	BLADE VERTICAL	3	P.P T1.5 (GY176A)	
40	3117600100	FLAP	1	HIPS T2.0 (GY171A)	
41	3100700700	BUSHING R	1		
42	3112200700	FRAME GRILLE	1	HIPS T2.5	
43	3114504200	PLATE LED	1	PC SHEET T0.2	
44	7172401211	SPECIAL SCREW	4	TT2 TRS 4*12 MFZN	
45	3103401400	KNOB SWITCH	1	DSB-240L/LH	
46	3101902610	FILTER ELECTRO ASSY	1	WHITE	
	3100033200	DUST COLLECTOR	1	DSB-123P	
47	3101902510	FILTER CARBON ASSY	1	BLACK	
48	3111901400	FILTER FRAME	2	P.P T2.0 (BLACK)	
49	3111403400	COVER TERMINAL BLOCK	1	HIPS T2.0	
50	7S422X40B1	SCREW TAPPING	1	TT2 TRS 4*12 MFZN	
51	3112401900	GRILLE INSERT	1	HIPS T2.5 (GY171A)	
52	3111403700	COVER LED	1	ABS T2.0	
53	3110400200	BODY TOP	1	HIPS T2.0	
54	7S422X40B1	SCREW TAPPING	3	TT2 TRS 4*12 MFZN	
55	3110603100	BRACKET PIPE	1	HIPS T2.0	
56	3114503800	PLATE MOUNTING	1	SGCC T0.8	

DSB-181L, DSB-182L/L-R, DSA-181L/182L

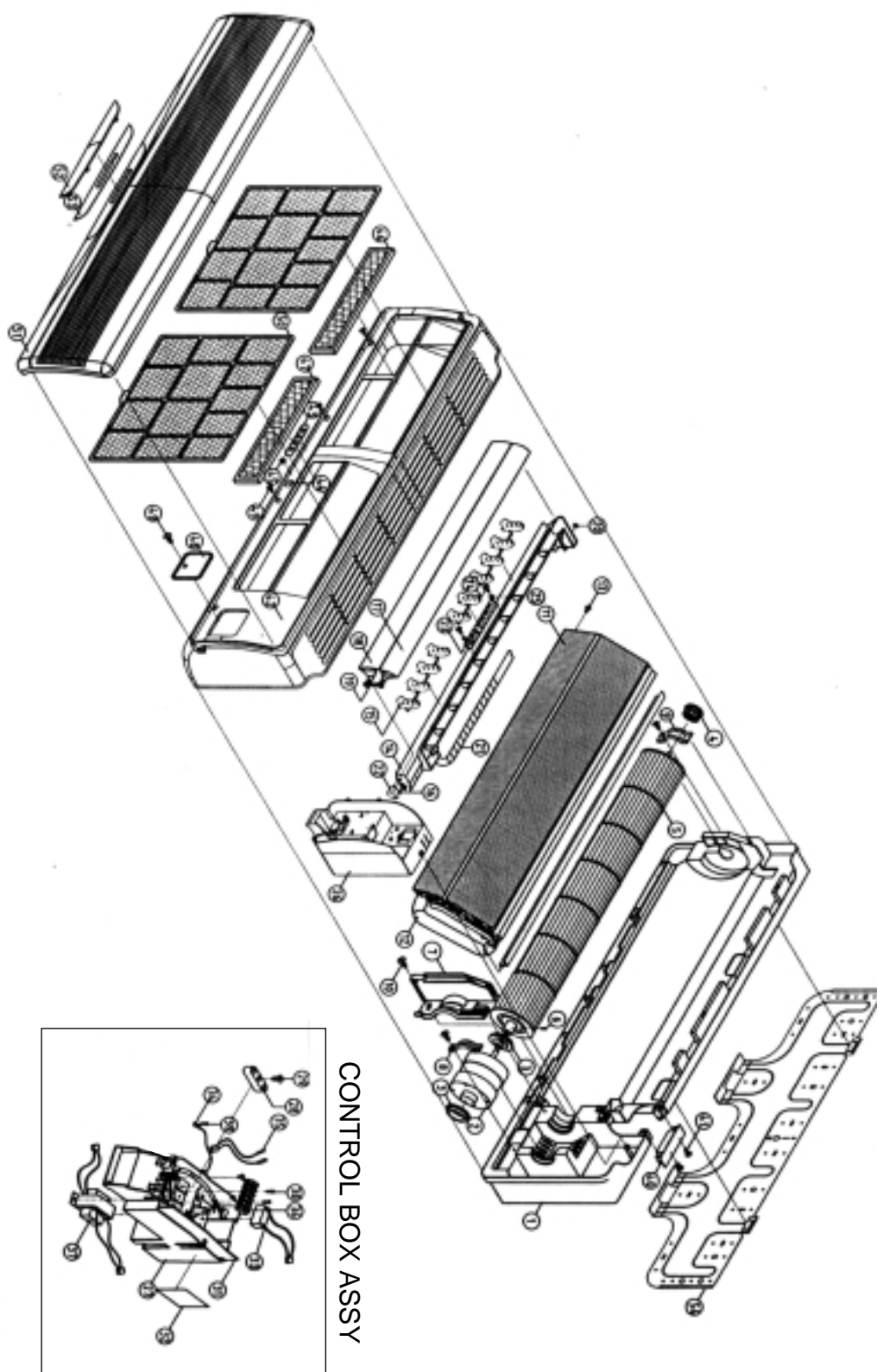


DSB-181L/182L/L-R Parts List (Indoor Unit)

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
1	3100400101	BODY	1	ABS	
2	3107600100	FLAP TOP	1	ABS	
3	3107600200	FLAP UNDER	1	ABS	
4	3106500400	BLADE VER	16	ABS	
5	3103000500	HOLDER MOTOR R	1	ABS	
6	3103000700	HOLDER BEARING	1	ABS	
7	3103000600	HOLDER MOTOR L	1	ABS	
8	3106400100	BEARING OILESS	1		
9	3101800200	FAN CROSS FLOW	1	Ø100X861L	
10	3102400800	GRILLE LATCH	3	POM	
11	3108000311	MOTOR ASS'Y	1	IC-9425 DWKC 5C	
12	3102400900	GRILLE INSERT	1	ABS	181L
	3112400400				182L
13	3100501000	BOX CONTROL	1	ABS (V0)	
14	3107410000	EVA ASS'Y	1		
15	3101930010	FILTER ELECTRO ASS'Y	1		
16	3101940010	FILTER CARBON ASS'Y	1		
17	3101401300	COVER TERMINAL BLOCK	1	ABS	
18	3108100100	PAN DRAIN	1	ABS	
19	3102200200	FRAME GRILLE	1	ABS	
20	3100000100	FILTER PRE R ASS'Y	1		

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
21	3100000200	FILTER PRE L ASS'Y	1		
22	3102900100	HINGE R-A	1	POM	
23	3102900300	HINGE L-A	1	POM	
24	3100001000	M-PCB ASS'Y	1		
25	3107800100	LINK VER CAM	1	P.O.M	
26	3104395400	F-PCB ASS'Y	1		
27	3108000200	MOTOR STEPPING	2	28BYJ48-V2	L=400mm
28	3108914100	TERMINAL BLOCK	1	JXO-CH-3P	
29	3107400300	EVA BRKT L	1	SGCC T1.0	
30	3107800200	LINK VER A	1	ABS	
31	3107800400	LINK VER C	1	ABS	
32	3105500400	PLT WINDOW SWITCH	1		
33	3104500300	PLATE MOUNTING	1	SGCC T0.8	
34	3108004310	MOTOR STEPPING	1	MP28GA/GSP-24SW-06/ST-28	L=1300mm

◆DSB-183L-R/DSA-183L/183L-R/DSB-240L-R/DSA-240L/240L-R



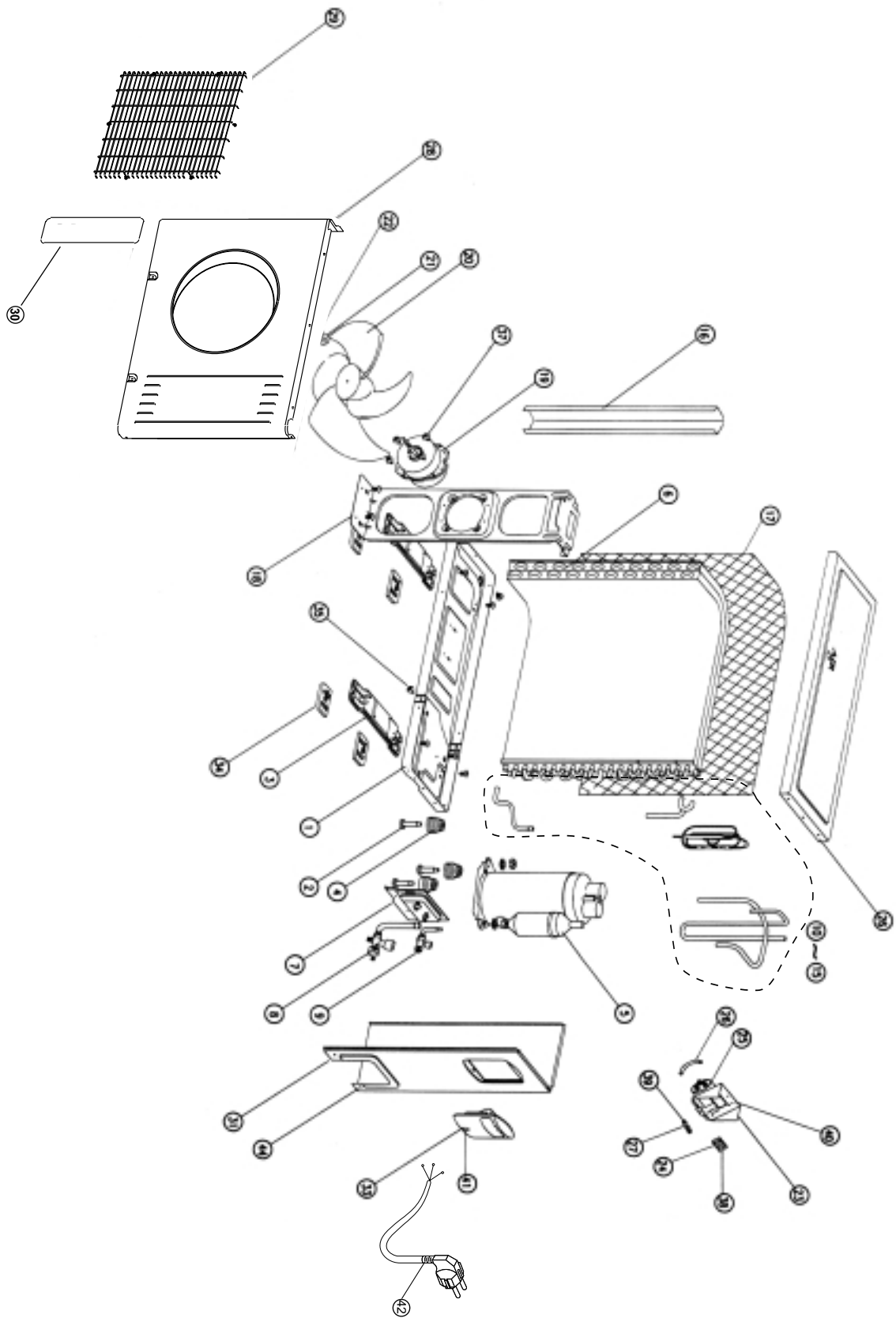
◆DSB-183L-R/DSA-183L/183L-R/DSB-240L-R/DSA-240L/240L-R PART LIST (INDOOR UNIT)

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
1	3100400600	BODY	1		
2	3108007500	MOTOR FCU	1	IC-9430DWKG7A	
3	3101500400	CUSHION MOTOR	2	CR I.D30 (R/W45)	
4	3106400200	BEARING PLASTIC ASSY	2	O.D37 .0*I.D6.0	
5	3100076400	FAN CROSS FLOW ASSY	1	Ø100XL864	
6	7485401012	SET SCREW	1	6S-4*10-E MFZN(BLACK)	
7	3103003800	HOLDER MOTOR L/B	1		
8	3103003900	HOLDER MOTOR R	1		
9	3103004000	HOLDER BEARING	1	ABS T2.5	
10	7172401211	SCREW TAPPING	3	TT2 TRS 4*12 MFZN	
11	3100089100	EVAPORATOR	1		
12	3104440100	PIPE ARTIRON HOSE	1	O.D:42 I.D:26 T=7, F-PE	
13	7172401211	SCREW TAPPING	1	TT2 TRS 4*12 MFZN	
14	3108101400	PAN DRAIN	1		
15	3106502700	BLADE VERTICAL (M)	2.5	J360A	
16	7141400811	SCREW TAPPING	1	T2 PAN 4X8 MFZN	
17	3107600500	FLAP UP	2		
18	3107600600	FLAP DOWN	1		
19	3107801700	LINK FLAP	1		
20	3100702000	BUSHING	2		
21	3103200800	HOSE DRAIN ASSY	1		
22	3108007600	MOTOR STEPPING	1	GSP-24RW-062	
23	3104301700	LED PCB ASSY	1	150X24.5X1.6T	
24	7112300611	SCREW TAPPING	2	3*6 MFZN	
25	3106002900	WASHER PLASTIC	2	ID Ø3	
26	3100077000	CONTROL BOX ASSY	1		
27	3100510700	BOX CONTROL	1		
28	3101200400	CLAMP POWER CORD	1	DA-5N	
29	7172401211	SCREW TAPPING	2	TT2 TRS 4*12 MFZN	
31	3104300830	CONTROL PCB ASSY	1		

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
32	2150013200	AL FOIL EMI	0.1	AL100P (W100XL100)	
33	3106902400	CAPACITOR SH.M.B	1	2.0MF 400V	
34	3102797910	HARNESS EARTH	1	GREEN/YELLOW L170mm	
35	3104896300	SENSOR ID ASSY	1	PTM-KD43C-D2	
36	3108914100	TERMINAL BLOCK	1	JXO-CH-3P	
37	5EPV050120	TRANSFORMER	1	DWA-220B	
38	7172401211	SCREW TAPPING	2	TT2 TRS 4*12 MFZN	
39	7S422X40B1	SPECIAL SCREW	2	TTS TRS SE 4*12 MFZN	
40	3100400700	BODY TOP	1		
41	7172401211	SCREW TAPPING	2	TT2 TRS 4*12 MFZN	
42	3102201400	FRAME GRILLE	1		
43	3104512400	PLATE LED	1	PC SHEET T0.2	
44	3104510200	PLATE SWITCH	1	PC SHEET T0.2	
45	3103401400	KNOB SWITCH	1		
46	3100017810	FILTER ELECTRO ASSY	1		
47	3100017910	FILTER CARBON ASSY	1		
48	3101406820	COVER T/BLOCK	1	ABS	
49	7112401211	SCREW TAPPING	4	T1 TRS 4*12 MFZN	
50	3102201500	FILTER FRAME	2	J360A	
51	3102403500	GRILLE INSERT	1		
52	3101406900	COVER LED	1		
53	3104512600	PLATE INSERT GRILLE	1	PET T=0.1	
54	3104511800	PLATE MOUNTING	1		

4

◆DSB-070L/071L/DSB-091L/092L/DSB-121L/122L/123L/DSA-123L



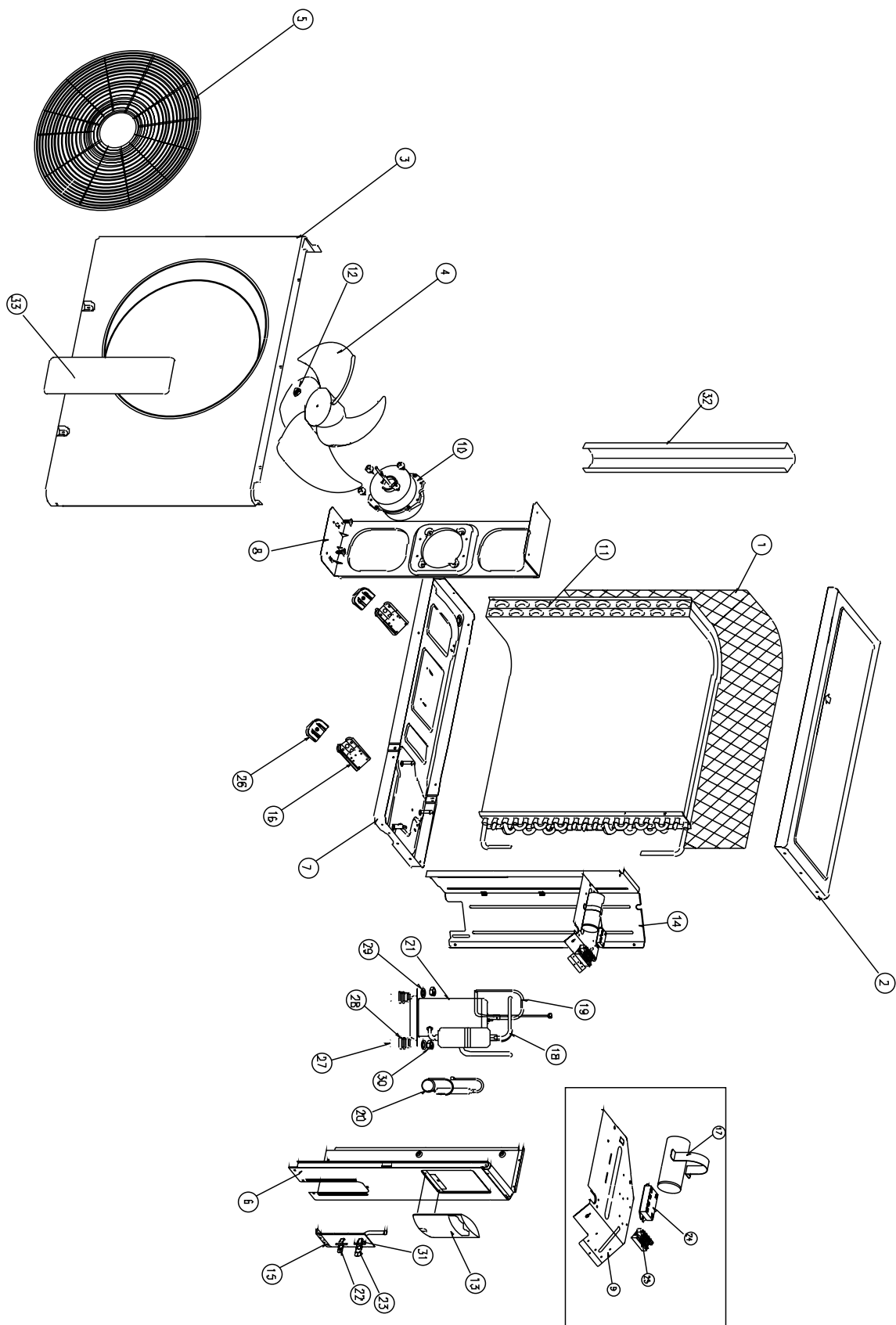
◆DSB-070L/071L/DSB-091L/092L/DSB-121L/122L/123L PART LIST(OUTDOOR UNIT)

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
1	3100300511	PAN BASE	1	SECC T1.2	071L/092L
	3100300531			SECC T1.2	123L
2	3106000900	COMP. BOLT	3	M8XL46.5	071L(DW COMP RBB070A011)
					092L(DW COMP RBB095A011)
					123L(DW COMP. RCB120A001)
3	3102100800	FOOT	2	SECC T1.2	070L/091L/123L
4	3108134AEO	COMP. BOLT	3	EPDM	071L (DW COMP RBB070A011)
					092L (DW COMP RBB095A011)
					123L(DW COMP. RCB120A001)
5	3RC0020GE1	COMPRESSOR ASS'Y	1	RBB070A011	071L
	3RC0020KE1			RBB095A011	092L
	3RC0020LE1			RCB120A001	123L
6	3110046100	CONDENSER ASS'Y	1	L465xW208.5xH508	071L/092L
	3100014110				123L
7	3100602200	BRACKET SERVICE	1	SECC T1.2	
8	3110050200	SERVICE VALVE ASSY	1	3/8"	
9	3105400800	SERVICE VALVE ASSY	1	1/4"	
10	3104410710	PIPE COND IN ASS'Y	1	C1220T	123L
11	3104412800	PIPE COND OUT ASS'Y	1	C1220T	123L
12	3104411411	PIPE OUTLET	1	C1220T	071L/092L
	3104411420				123L
13	3110046400	PIPE SUCTION ASS'Y	1	C1220T	071L(DW COMP RBB070A011)
					092L(DW COMP RBB095A011)
	3110083200				123L(DW COMP. RCB120A001)
14	3110046500	PIPE DISCHARGE ASS'Y	1	C1220T	071L(DW COMP RBB070A011)
					092L(DW COMP RBB095A011)
					123L(DW COMP. RCB120A001)
15	3110046600	PIPE SUCTION ASS'Y	1	C1220T	071L(DW COMP RBB070A011)
					092L(DW COMP RBB095A011)
	3110083200				123L(DW COMP. RCB120A001)

• DSA-123L

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
1		COMPRESSOR	1	QK173KAJ	ICA-123L
2	3104411M00	PIPE DISCHARGE ASS'Y	1	C1220T	LG COMP
3	3104411N00	PIPE SUCTION	1	C1220T	LG COMP
4		CAPACITOR	1	3+35 370VAC	DSA-123L
5	311009HU01	PIPE CAPILLARY	1	Ø1.6 X 800L	DSA-123L

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
16	3102501100	GUIDE SUPPORT	1	SECC T1.2	
17	3102402600	GRILLE CONDENSER	1	P.E. 660x525.5xT3.5	
18	3100601903	BRACKET MOTOR	1	SBHG1 T1.2	
19	3108008900	MOTOR ODU	1	YDK-30-6B	071L
	3118001100			A9525BD010	092L
	3118001300			A9530CD010	123L
20	3101801000	FAN PROPELLER	1	ABS+G.F20% (BLACK)	
21	7400208411	WASHER PLAIN	1	PW-2-8 MFZN	
22	7392800011	NUT LOCK	1	M8 x P1.25 MFZN	
23	3104201900	PANEL CONTROL	1	SBHG1 T0.8	
24	3108914100	TERMINAL BLOCK	1	JXO-CH-3P	
25	3109505600	CLAMP CAPACITOR	1	1.8+25 μ F/400VAC	071L(DW COMP RBB070A011)
					092L(DW COMP RBB095A011)
	3109506500				123L(DW COMP. RCB120A001)
26	3101201100	CLAMP CAPACITOR	1	SBHG1 T1.0	
27	3101202000	CLAMP CORD	1	NYLON	
28	3110801500	CABINET FRONT	1	SECC T0.8	
29	3112402200	GRILLE DISCHAGE	1		
30	3103510700	LABEL BRAND	1	P.C.FILM T0.4	
31	3100801300	CABINET SIDE	1	SECC T0.8	
32	3104201800	PANEL TOP	1	SECC T0.8	
33	3102600300	HANDLE	1	A.E.S. T2.5 (WH104A)	
34	3102101000	FOOT CUSHION	4	NBR (HARDNESS 45° \pm 5°)	
35	7112401211	TAPPING SCREW	11	T1S TRS 4X12 MFZN	
36	7112401214	TAPPING SCREW+PVC WASHER	29	T1S TRS 4X12 MFZN	
37	7112401211	TAPPING SCREW	4	T1S TRS 4X12MFZN	071L/092L
	7112402011			T1S TRS 4X20 MFZN	123L
38	7111301611	TAPPING SCREW	2	T1S PAN 3X16 MFZN	
39	7112403011	TAPPING SCREW	3	T1S TRS 4X30 MFZN	
40	7S432X40A1	SPECIAL SCREW	1	TT3 TRS SE 4X8 MFZN	
41	7112401614	TAPPING SCREW+PVC WASHER	5	T1S TRS 4X16 MFZN	
42	3101397171	POWER CODE ASS'Y	1		BUYER



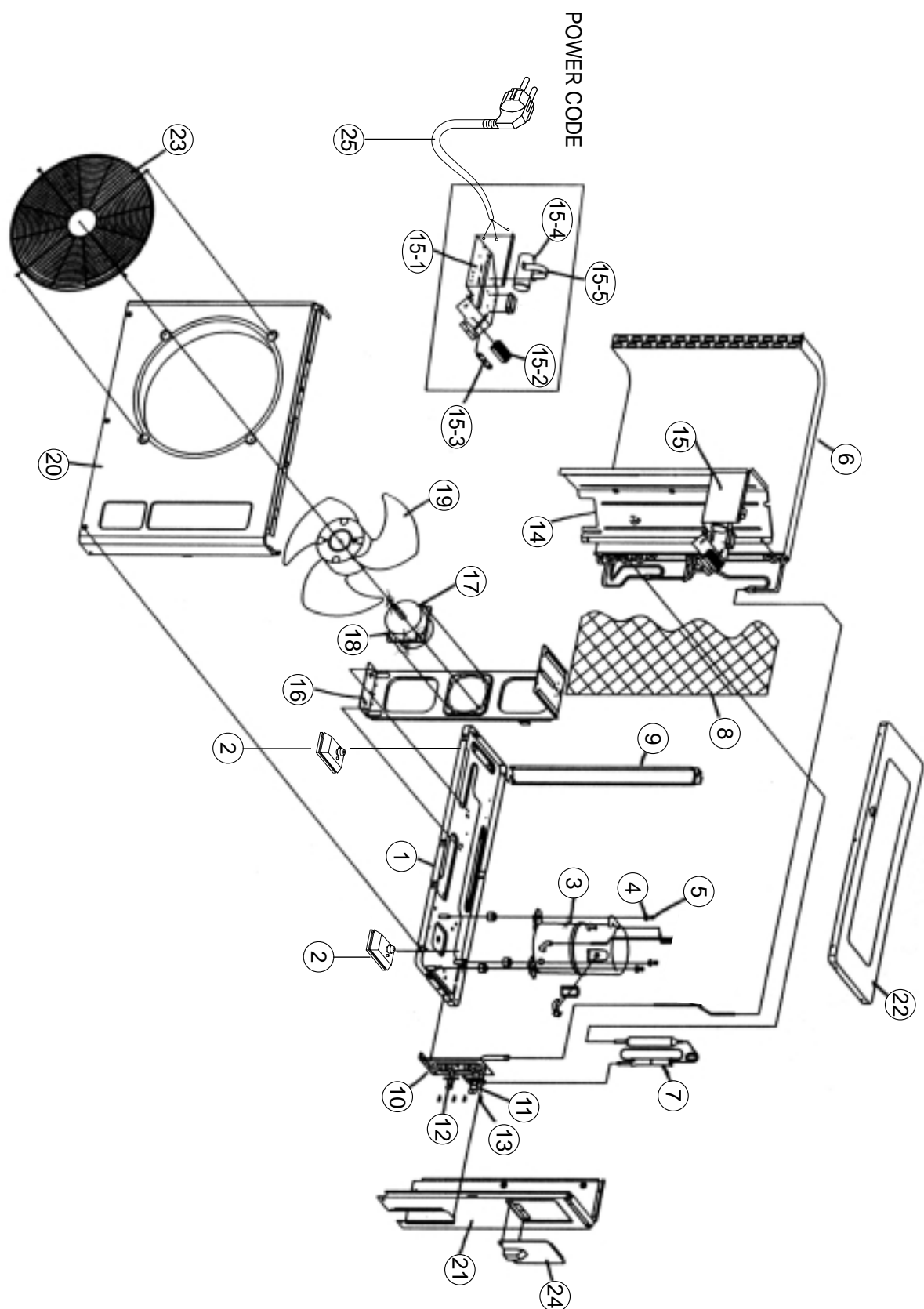
DSB-181L/182L/182L-R/183L-R/DSA-183L-R/183L Parts List (Outdoor Unit)

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
1	3102402100	GRILLE COND	1	PE	
2	3114200500	PANEL TOP	1	SECC T1.0	
3	3110800200	CABINET	1	SECC T1.0	
4	3101800100	FAN	1	ABS + G/F	
5	3102400710	GRILLE DISCHARGE	1	PP	
6	3110800300	CABINET	1	SECC T1.0	
7	3118100200	PAN BASE	1	SECC T1.2	DSB-182L/183L
	3118100220				DSB-182L-R/183L-R DSA-183L-R
8	3110600200	BRACKET MOTOR	1	SGCC T1.2	
9	3114200600	PANEL CONTROL	1	SGCC T0.8	
10	3108009100	MOTOR ODU	1	220~240V/50Hz	DSB-182L/L-R,183L-R
	3108000521			220V/60Hz	DSA-183L-R
11	3110018800	CONDENSER ASS'Y	1		
12	7392800011	NUT HEX	1	M8xP1.25 MFZN	
13	3102600300	HANDLE	1	A.E.S T2.5	
14	3114500800	PLATE PARTITION	1	SGCC T1.0	
15	3100610001	BRACKET SERVICE ASS'Y	1		
16	3102100201	FOOT	1	SECC T2.0	
17	3101301100	CLAMP CAPACITOR	1	SGCC T1.0	
18	3100001711	PIPE SUCTION ASS'Y	1		DSB-182L/L-R
	3110010600				DSA-183L-R/DSB-183L-R
	3110049300				DSA-183L
19	3100049011	PIPE DISCHARGE ASS'Y	1		DSB-182L/L-R
	3110010500				DSA-183L-R/DSB-183L-R
	3110049200				DSA-183L

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
20	3110025700	PIPE FILTER ASS'Y	1		DSB-182L/L-R/DSB-183L-R
	3110030700				DSA-183L-R
21	3107140100	COMPRESSOR	1	SHW-33TC4-U	DSB-181L/182L
	3100068010			AWG5524EXC	DSB-182L-R/DSB-183L-R
	3100068110			AWG5519EXN	DSA-183L-R
	3100091700			RCA180T001	DSA-183L
22	3105400200	SERVICE VALVE-LIQ	1	C3771, 1/4"	
23	3105400100	SERVIC VALVE-GAS	1	C3771, 1/2"	
25	3118900210	TERMINAL BLOCK	1	JXO-CH-2P	
26	3118900210	FOOT CUSHION	4	NR	
27	3106002400	BOLT COMP	3	M8xL70	DSB-182L/183L
	3106002700		4	M8xL30	DSB-182L-R, DSB-183L-R, DSA-183L-R
28	3101500800	GROMMER COMP	3	HITACHI	DSB-182L
			4	TECUMSEH	DSB-182L-R, DSB-183L-R, DSA-183L-R
	3108104AE0		3	DW	DSB-183L
29	3107101120	COMP WASHER	3	M8.4x22xT1.6	DSB-182L/183L
			4		DSB-182L-R,DSB-183L-R DSA-183L-R
30	3107101130	NUT CPOMP	3	M8xP1.25 MFZN	DSB-182L/183L
			4		DSB-182L-R,DSA-183L-R
31	7347602011	BOLT HEX	4		
32	3112500300	GUIDE SUPPORT	1	SECC T1.2	
33	3103510700	LABEL BRAND	1	PC 346x90xT0.4	

• DSA-181L

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
		COMPRESSOR	1	DAEWOO	PCA180U001
	3110049H00	CAPILLARY	1	C1220T	ø2.0x1000ℓ
	3110049M00	DISCHARGE	1	C1220T	
	3110049N00	SUCTION	1	C1220T	



◆DSB-240L-R/DSA-240L-R/240L PART LIST (OUT DOOR UNIT)

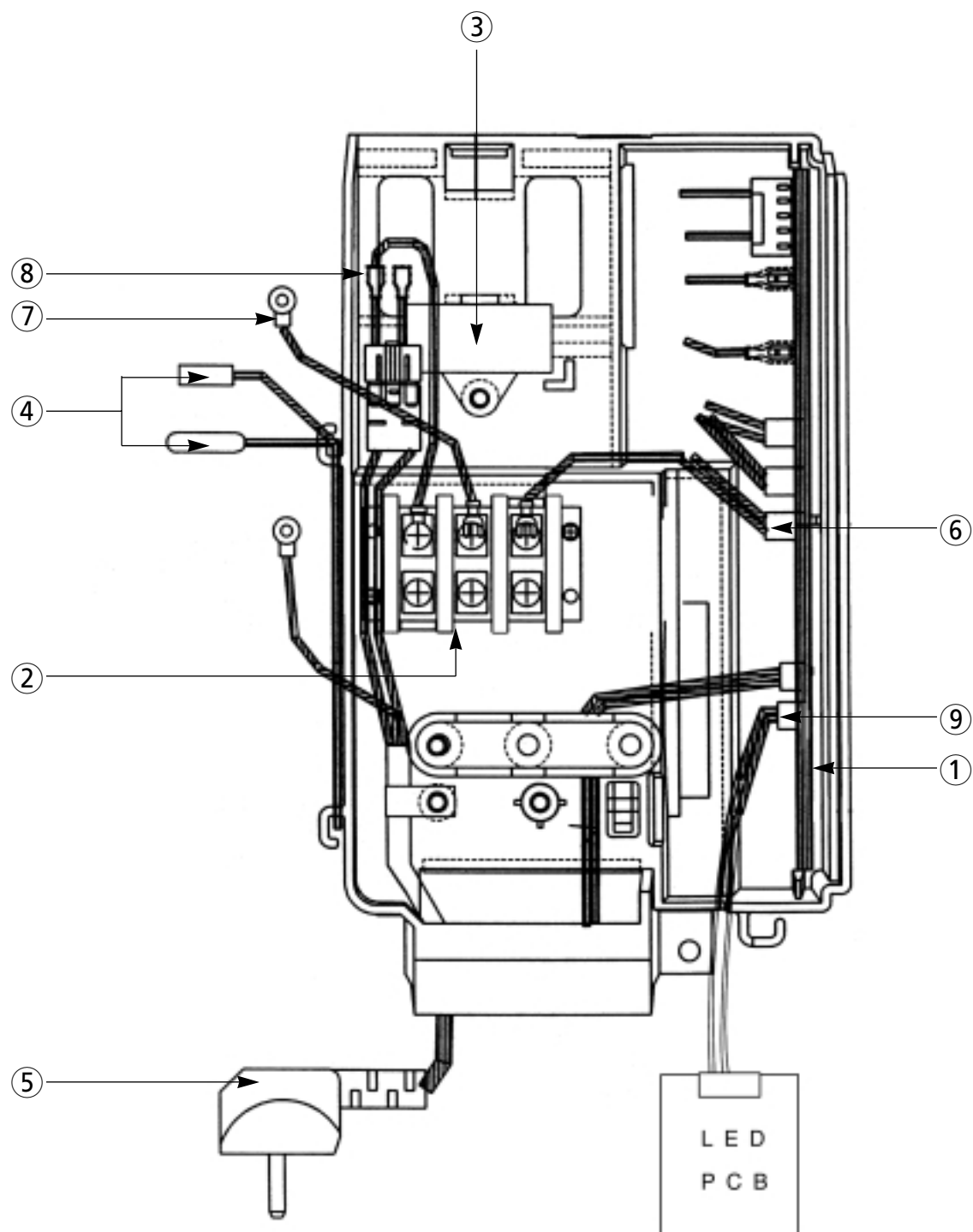
No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
1	3100041750	BASE PAN PAINT ASSY	1	PAINTING	DSA(B)240L-R
	310003118P				DSA-240L
2	310P30281A	FOOT CUSHION	4	NBR (54*63.5)	
3	3100068201	COMPRESSOR ASSY	1	AWG5530EXC	DSB-240L-R
	3100068300			AWG5524EXN	DSA-240L-R
	3117147300			55A240IT1JM	DSA-240L
4	7400208411	WASHER PLAIN	3	ID8.4*OD22*T1.6	
5	7392801211	NUT LOCK	3	M8*1.25P	
6	3106800500	CONDENSER ASSY	1	AL+CU	DSA(B)240L-R
	3100078020				DSA-240L
7	3100089303	PIPE CAPILLARY ASSY	1	C1220T-OL	DSA(B)240L-R
	311009MS00				DSA-240L
8	3102402100	GRILLE COND	1	PE	
9	3100041100	GUIDE POST P/T ASSY	1	PAINTING	
10	3100041200	BRK SERVICE P/T AS	1	PAINTING	DSB-240L-R
	3100041201				DSA-240L-R
11	3105401800	SERVICE VALVE(G)	1	ø15.88(5/8")	
12	3105401200	SERVICE VALVE(L)	1	ø9.52(3/8")	
13	3106002300	BOLT HEX	4	M6*L20 MFZN	
14	3100031702	PLT PARTITION ASSY	1	SGCC-M-Z22	
15	3100086500	ASSY PANEL CONTROL	1	SGCC-M-Z22 T0.8 H/P	
15-1	3104201601	PANEL CONTROL	1	SGCC-M-Z22 T0.8	
15-2	3108914100	TERMINAL BOLCK	1	JXO-CH-3P	DSA(B)240L-R
	3118900210		1	JXO-CH-2P	DSA-240L
15-3	3101202600	CLMP CORD	1	DA-4N	DSB-240L-R
	3101202000			NYLON66,(VDE)	DSA-240L-R
15-4	3109504830	CAPACITOR DUAL	1	5/45µF 400VAC	DSB-240L-R
	3109504820			5/35µF 400VAC	DSA-240L-R
	3116908600			5/45µF 450VAC	DSA-240L
15-5	3101203300	CLAMP CAPACITOR	1	SGCC ø63 T0.8	
16	3105300400	SUPPORT MOTOR	1	SGCC-M-Z22 T1.6	
17	3108009900	MOTOR ODU	1	OSME986DERC 230/50	DSB-240L-R
	3108005800				DSA-240L-R
	31180080000			A2929GS01B	DSA-240L
18	7348602011	BOLT HEX	4	WAS M6*L20 MFZN	
19	3101802000	FAN PROPELLER	1	ABS+G/F(20%)	
20	3100031400	CABINET FRONT P/T AS	1	PAINTING	
21	3100031500	CABINET SIDE P/T AS	1	PAINTING	
22	3100041500	PANEL TOP P/T ASSY	1	PAINTING	
23	3102102000	GRILLE DISCHARGE	1	(BE-002D)	
24	3100089200	SERVICE COVER ASSY	1	ASA	

• DSA-240L-R (Kul thon Kirby Comp)

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
		COMPRESSOR	1	AW5524EX-2L-3	
	311009MS01	AS PIPE CAPILLARY	1	Ø2.0 x 400L	
	3104438M00	PIPE DISCHARGE	1	C1220T	
	3104438N00	PIPE SUCTION	1	C1220T	

5 CONTROL BOX ASSEMBLY

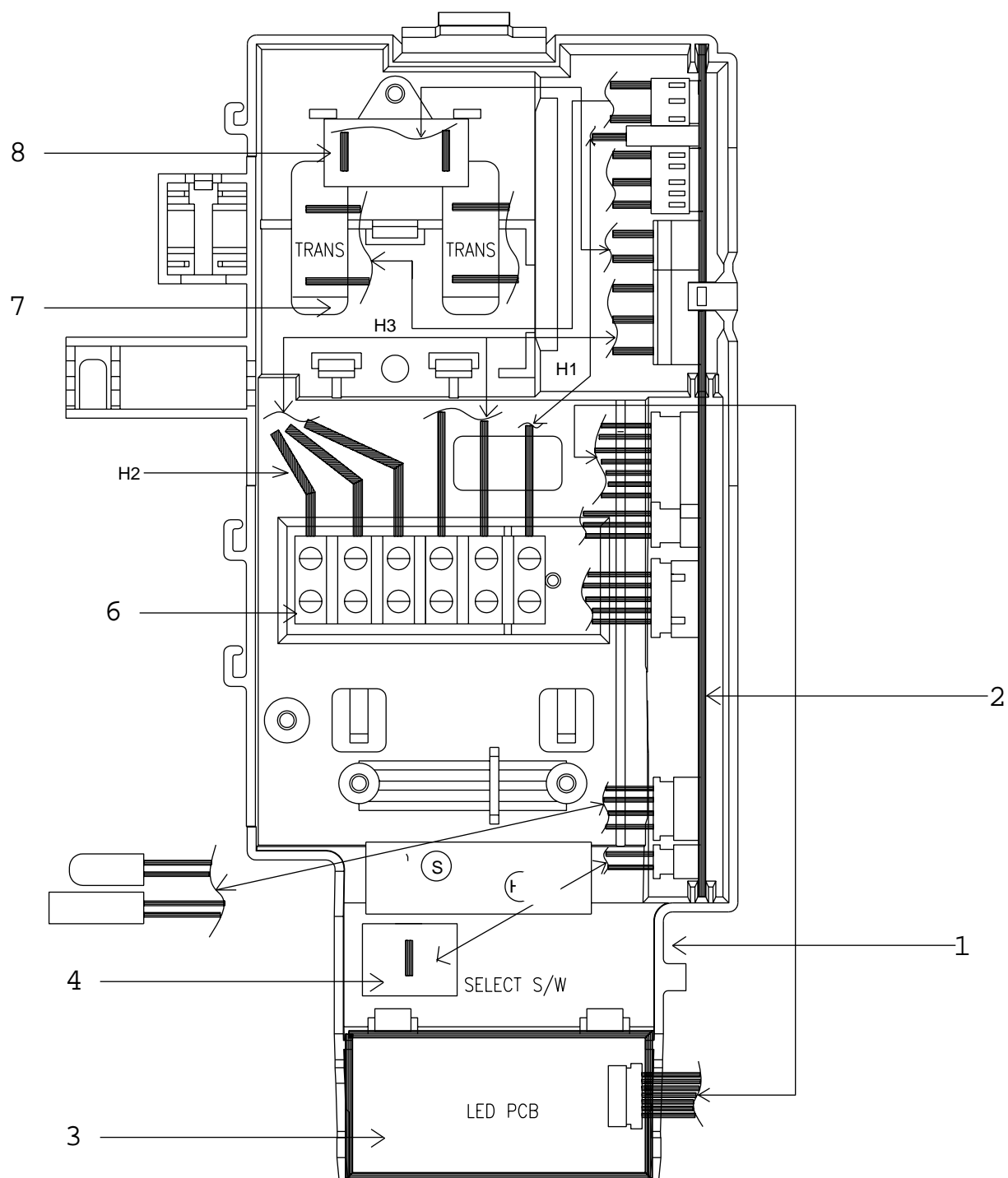
◆DSB-070L/071L/091L/092L



◆DSB-070L/DSB-091L

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
1	3100054400	CONTROL PCB ASS'Y	1		
2	3108914100	TERMINAL BLOCK	1	JXO-CH-3P	
3	3106900300	CAPACITOR SH.M.B	1	1.0μF 400VAC	
4	3104896300	SENSOR ID ASS'Y	1	PTM-KD43C-D2	
5	3101300100	POWER CORD ASS'Y	1	16A 250V	
6	3102797610	HARNESS	1	I/D COMP	
7	3102797910	HARNESS	1	I/D EARTH	
8	3102704000	HARNESS	1	POWER	
9	3102704500	HARNESS	1	LED PCB	

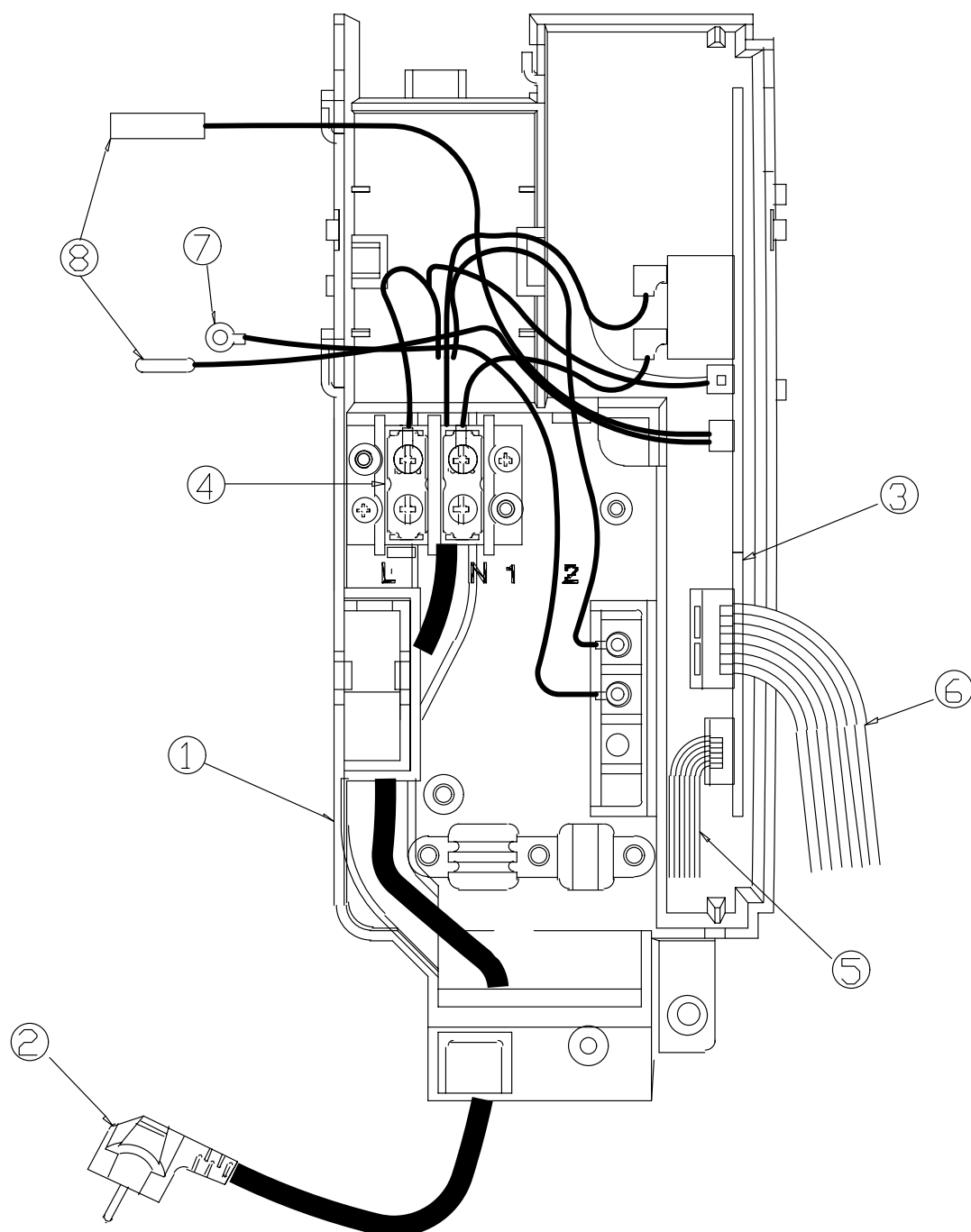
◆DSB-121L/DSB-122L



◆DSB-121L/DSB-122L

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
1	3100503101	CONTROL BOX	1	P.P+G.F 20%	
2	3100054400	CONTROL PCB ASS'Y	1	FR-1	
3	3108054200	LED PCB ASS'Y	1	FR-1	
4	3103400300	KNOB RESET SWITCH	1	ABS	
6	3108914100	TERMINAL BLOCK	1	JXO-CH-3P	
7	5EPV050100	TRANS FORMER	1	DWA220A-50/60Hz	
8	3106900300	CAPACITOR SH.M.B	1	1.0μF 400VAC	
H1	3102797601	HARNESS I/D COMP	1		
H2	3102797500	HARNESS LED PCB	1		
S	3104896300	SENSOR ID ASS'Y	1	PTM-KD-43C-D2	
H3	3102797162	HARHESS POWER	1		

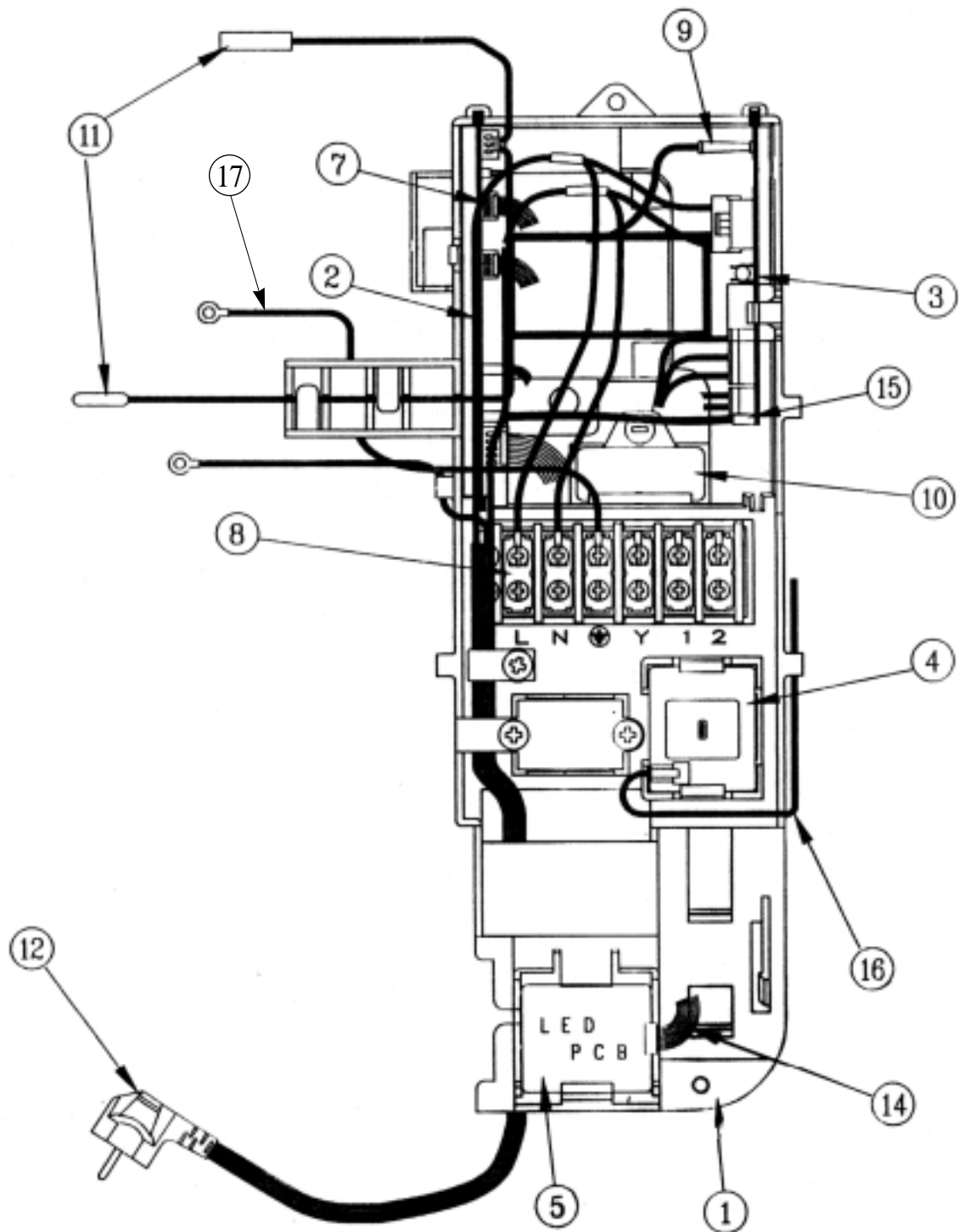
◆DSB-123L/DSA-123L



◆DSB-123L/DSA-123L

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
1	3110504000	CONTROL BOX	1	HIPS T2.0 (BLACK)	
2	3111312110	POWER CORD	1	AC250V, 10/16A H05VV-F *1mm ²	
3	3114302020	CONTROL PCB ASS'Y	1		
4	3118900200	TERMINAL BLOCK	1	JXO-CH-2P	
5	3108003910	STEPPING MOTOR	1	MP24GA	
6	3112716100	HARNESS LED PCB	1	UL1007 8*26AWG	
7	3112716250	HARNESS ID EARTH	1	UL1015 16AWG	
8	3104896300	SENSOR ID ASS'Y	1	PTM-KD-43C-D2	

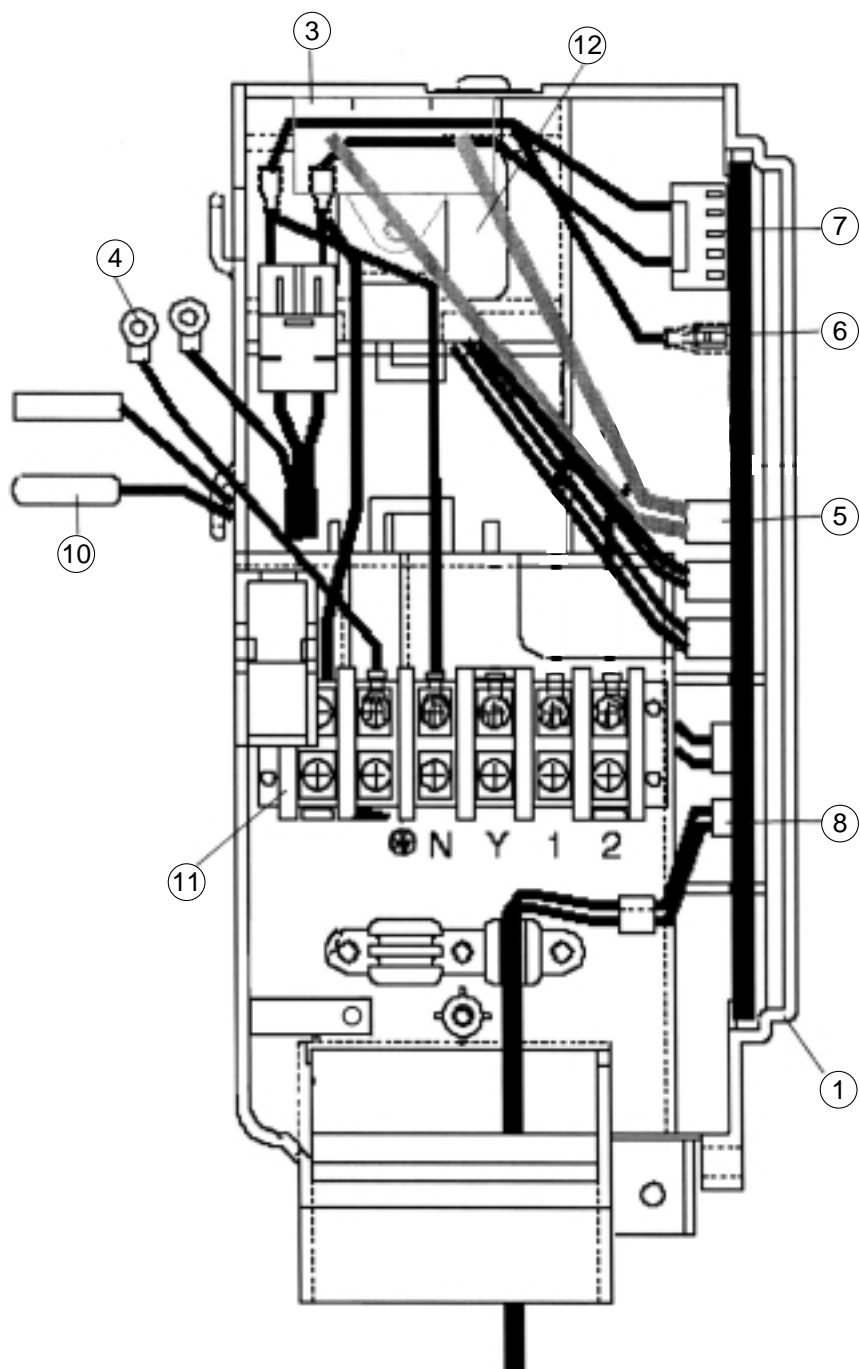
DSB-182L/182L-R/DSA-181L/182L



DSB-182L/182L-R /DSA-181L/182L

NO	PART CODE	PART NAME	Q'TY	SPEC RE	MARK
1	3100506900	CONTROL BOX	1	ABS	
2	3104300720	CONTROL PCB ASS'Y	1		
3	3104300212	POWER PCB ASS'Y	1		
4	3104300301	SWITCH PCB ASS'Y	1		
5	3104300401	LED PCB ASS'Y	1		
7	3108000200	MOTOR STEPPING	2	28BYJ48-V2	L=400mm
8	3108914100	TERMINAL BLOCK	1	JXO-CH-3P	
9	5EPV633110	TRANSFORMER	1	DWA220V 50Hz	
10	3106900200	CAPACITOR I.D.M	1	SH.M.B 1.2μF/450V	
11	3104896000	SENSOR ID ASS'Y	1	PEM-KD43C-D1	
12	31013A24B1	POWER CORD ASSY	1	220V 50Hz	
14	3102704510	HARNESS LED PCB	1	UL1007 #24	
15	3102704900	HARNESS CONNECTING	1	UL1007 #24	
16	3102707000	HARNESS SWITCH PCB	1	VSF 12/0.16	
17	3102797910	HARNESS EARTH	1	I/D EARTH	

◆DSB-183L-R/DSA-183L-R/183L/DSB-240L-R/DSA-240L-R/240L



◆DSB-183L-R/DSA-183L-R/183L/DSB-240L-R/DSA-240L-R/240L

No	PART CODE	PART NAME	Q'TY	SPEC	REMARK
1	3100094250	CONTROL PCB ASS'Y	1		
3	3106902400	CAPACITOR SH.M.B	1	2.0MF 400V	
4	3102797900	HARNESS EARTH	1		
5	3102714400	HARNESS CAPACITOR	1	DSB-240L, LH CAPACITOR	
6	3102704410	HARNESS COMP SIGNAL	1	UL1015#18	
7	3102704011	HARNESS POWER	1	H05VV-F	
8	3102702200	HARNESS TH3	1	TH-3-1	
10	3104896300	SENSOR ID ASSY	1	NTM-KD43C-D1D2 L450, L330	
11	3108914100	TERMINAL BLOCK	1	JXO-CH-3P	
12	5EPV050120	TRANSFORMER	1	DWA-220B	

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